Julius
Gromyko
Principal **Architect**
Enterprise Consultant

About **Me**

Hello everyone,

I am Julius Gromyko, a solopreneur and solution consultant with over 10 years of experience in high-level and low-level design, web and mobile development, and AI integration. I run provide enterprise and solution consulting under GroMyCo™, a brand that helps startups and businesses leverage cutting-edge technologies to create innovative products and services.

I am passionate about bringing crazy ideas to life, growing your business, and making your customers happy. I have a strong background in startup development, agile, lean, and evolutionary architecture, and mathematical modeling and computational methods. I also have multiple certifications in programming, game development, and project management. I share my knowledge and expertise publicly, revealing professional techniques and best practices.

Sincerely

Julius Gromyko

1   About me

3   Experience

7   Education

9   Portfolio

X *Tomorrow: Awesome company*

x

GroMyCo ™

Enterprise and Solution Consultant Architect   2023

Solution guru, AI integrator, entrepreneur. Challenging conservative markets with AI technologies. I show how to build projects publicly, reveal professional techniques

+

FOZZY GROUP

Сільпо

Fozzy Group (Silpo food) case   2023

As an Enterprise Architect, I focused on delving deep into the corporate strategy and the historical problems of the company with its in-house loyalty platform.
1. Developed HLA Enterprise & Business Architecture for new loyalty platform and got it approved at all levels.
2. Introduced solution approaches to achieve business objectives
3. Aggregated and analysed business strategies and pain points of various business platform consumers, translated these expectations into requirements and technical strategy.

Sergiy Medvedyev · 1st
Chief IT Architect | Digital Transformation | Leadership | Software architecture: AWS and not only | from 3-tier to global, distributed, event driven cloud-native SaaS
July 11, 2023, Sergiy managed Julius directly

We've envolved Julius as an external architect-consultant to help to design the High Level Architecture vision for redesigning one of the biggest loyalty systems in Ukraine. That was really interesting collaboration where we found the common language almost immediately and provided an excelent results.
Thanks for work!

IT Consulting Services for Retail Network Company   ⤴ Share

THE PROJECT

🖥 Enterprise App Modernization, IT Strategy Consulting, Other IT Consulting and SI

🗂 Confidential

📅 May - June 2023

PROJECT SUMMARY

GromyCO provided IT consulting services for a retail network company. They helped create a high-level architecture document to describe the strategy, component, and BPMN for the next-generation loyalty system.

5.0
★★★★★

Quality	5.0
Schedule	5.0
Cost	5.0
Willing to Refer	5.0

THE REVIEW

"We were impressed by their quick reaction and proactive position."

Jul 26, 2023

FEEDBACK SUMMARY

GromyCO successfully delivered the high-level architecture document, which the client presented to their top management with a positive result. The team managed the project seamlessly, communicating regularly and maintaining short feedback loops. Overall, they were efficient and professional.

THE REVIEWER

Chief IT Architect, Temabit, Fozzy Group

👤 Sergiy Medvedyev

🏢 Retail

◎ Kyiv, Ukraine

👤 1,001-5,000 Employees

💬 Online Review ⑦

☑ Verified

Thomas Cook

Principal Architect   2020

Responsibilities
Redesign OTA platform from scratch, implimenting security government, technical roadmap design, solutionising web and mobile products, vendor and 3rd party solution verification, preparing solution proposals and cost burn estimations, working with V and C level stakeholders, providing product improvements and potential tech trend vectors for new products

Prime Technology
AWS, Azure, ElasticCloud, Grafana, Node.js, Angular, NextJS, Preact, VueJS, QwikJS

Alistair Rae · 1st
Director of Engineering at Booking.com
August 31, 2023, Alistair managed Julius directly

Julius has been instrumental in the successful rebirth of Thomas Cook, where his architecture expertise, has enabled Thomas Cook to go live with a new, future proof, platform in a record time.

From recruiting the right engineers, envisioning, designing and delivering the technical architecture for a complex problem, Julius contribution did continue post go live, focusing on driving value through technology and innovations. Thanks to his wide breath of technical knowledge, he was able to address the multitude of challenges that we faced, contributed to fortifying our operations with robust security governance, as defining carrier path and training for our teams to ensure we would not only build but also improve along the way.

It has been a pleasure to work with Julius and I hope our carriers will cross again.

Peter Yip · 1st
Chief Technology Officer at Thomas Cook
July 13, 2023, Peter was senior to Julius but didn't manage Julius directly

Julius is an extremely talented and dedicated Architect, his technical capability, personal drive and diligence was a significant contribution to the re birt of Thomas Cook.

I highly recommend Julius and hope to have the opportunity to work with Julius again!

Snezhana Chaykina · 1st
Engineering Site Manager, Software Development Manager
July 11, 2023, Snezhana worked with Julius on the same team

Together we launched the new Thomas Cook. Julius designed the technical architecture from scratch and brought it live. Continued to look for new innovations after launch and implemented security governance. With his support we built a professional team and overcame many difficult challenges.

SRE & DevOps Consulting Services for Online Travel Agency   ⚹ Share

THE PROJECT
AI Consulting, Architectural Design, BI & Big Data Consulting & SI, Custom Software Development, E-Commerce Development, IT Strategy Consulting, Mobile App Development, Other IT Consulting and SI, Robotics Process Automation, Web Development

Confidential

Jan. 2020 - Feb. 2023

PROJECT SUMMARY

GromyCO provided SRE and

5.0
★★★★★

Quality	5.0
Schedule	5.0
Cost	5.0
Willing to Refer	5.0

THE REVIEW
"They demonstrated excellent problem-solving skills and approached tasks with a proactive and solution-oriented mindset."

Jul 20, 2023

FEEDBACK SUMMARY

The client was satisfied with GromyCO's quality work and performance. The team exceeded expectations and stood out for their professionalism, expertise, and commitment to customer satisfaction. Overall, they worked diligently, were flexible to changing circumstances, and had a strong work ethic.

THE REVIEWER
Head of Technology, Thomascook

Mani Ananth

Hospitality & leisure

London, United Kingdom

51-200 Employees

Online Review ⑦

Verified

Thomas Cook

Tribe Solution Architect   2019

Responsibilities

Technical roadmap design (inc cloud/AWS migration, frontend, back-end, and mobile apps areas), adopting and refactoring legacy systems from monolith to microservices and micro frontends, vendor and 3rd party solution verification, preparing solution proposals and cost burn estimations, working with V and C level stakeholders, providing product improvements and legacy system replacement.

Technology

Node.js + Angular, MongoDB, Docker, AWS, Solr, Magnolia CMS, Java

Team Lead   2018

Responsibilities

Maintain and support a legacy system, refactoring monolith code to microservices, providing product improvements, and legacy system replacement. Design new services architecture and machine learning for adaptive search and recommendation system. Managing team of 4 full-stack JS devs, 2 QA, one scrum manager.

Technology

Node.js + Angular 5, MongoDB, Docker, AWS, SOLR, Java/Spring

+3.2%
+18%   +40%

roister

CoFounder, CTO   2017

Responsibilities

Design and implementation of SaaS AI Ads platform from Scratch. Managing development team, development of all core systems + machine learning on R, build infrastructure with CI. Business model improvements and business strategy planning.

Technology

RabbitMQ, Angular 2, Nginx, Node.JS, Docker, Microservices, R

rwrd

CoFounder, CTO   2016

Responsibilities

Development of SaaS service with mobile apps from Scratch. Managing development team, development of all core systems + iOS application, build infrastructure with CI. Business model improvements and business strategy planning.

Technology

Node.js, Mongo, RabbitMQ, Docker, Angular, Swift 3.0

Thomas Cook

Senior Front-End Developer 2015

Responsibilities

Development of UI/Front-End and API middleware for checkout flow. Code review, test coverage.

Technology

AngularJS, Express.js, Grunt, SASS, Mule, Java 8, Karma, Jasmin, WebDriver

appinion.io

Full Stack Developer: FE, BE, Mobile 2015

Responsibilities

Technology audit, solution design and implementation, people recrutment and management

Technology

HAXE, OpenFL, Erlang/OTP

CleverMail

Founder, CEO 2014

Technology

Objective-C, Java, C++, HTML, CSS, JS

ODesk

Erlang Developer, SDET 2011-2014

Responsibilities

Refactoring, code review supporting and extending ejabberd, white box, black box testing,

Technology

Erlang, eJabberd, Selenium

VD Soft

C# .Net Developer 2010

University

Master of Technology (M.Tech., unfinished)   2012-2013

Zhitomir Technological State University
Mathematical modeling and computational methods

Master's degree   2011-2012

Zhitomir Technological State University
Software Engineering

Bachelor's degree   2007-2011

Zhitomir Technological State University
Software Engineering

Licenses & Certifications

Atmosfera   Oct 2022

Design of Solar Stations

SketchUp   Aug 2021

SketchUp Fundamentals

School of AI   Jul 2018

Decentralized Applications

LinkedIn   May-Oct 2018

- **Graphic Design Foundations:**
- **Typography**
- **Typography: Color Contrast and Scale**
- **Branding for Designers**
- **Interaction Design for the Web**
- **Creating a Design System with Sketch**

DigitalTutors   Apr 2014

**Indie Game Development Pipeline
Volume 1: Visual Development**
Credential ID JGRW49NE

Microsoft   Jan 2013

**70-480 Programming in HTML5 with
JavaScript and CSS3**
Credential ID E131-2513

SecurityCompass   Aug 2019

OWASP Top 10
Credential ID 1894

Lynda.com   2016-2017

- **Agile at Work: Building Your Agile Team**
  Credential ID CC09D0
- **The Basics of Data for Analytics**
  Credential ID E62D12
- **App Store Optimization for iOS and Android Applications**
  Credential ID 6A447C
- **Mentoring Others**
  Credential ID 12740A
- **Negotiation Fundamentals**
  Credential ID 3BE852
- **Agile Project Management**
  Credential ID F7E6BC
- **Agile Project Management with Microsoft Project**
  Credential ID 0D0808
- **Building a Slack Bot with Node.js Microservices**
  Credential ID 0A559E
- **Cloud Computing: The Cloud and DevOps**
  Credential ID 29DD80
- **Docker: The Basics**
  Credential ID A80109
- **Mastering Express Web Application Development**
  Credential ID 0E7375
- **Project Management Simplified**
  Credential ID 9DBB0C
- **Transitioning from Waterfall to Agile Project Management**
  Credential ID 9BDDB2

Courses

- **Startup Ukraine: Doing business**
- **Professional Scrum Master by ANDigital**
- **Erlang by Synrc Research Center**
- **Basic programming in C# 3.0 by Intuit**
- **Indie Game Development Pipeline Volume 1: Visual Development**
- **OneShield Dragon Foundations**
- **OneShield Dragon Foundations Training**
- **Transition to Middle Manager (Ciklum Traning, course by Vera Shatskaya)**
- **CG101: 12 Principles of Animation**
- **CG101: Cinematography**
- **CG101: Compositing**
- **CG101: Dynamics**
- **CG101: General 3D Terminology**
- **CG101: Graphic Design**
- **CG101: Image Editing**
- **CG101: Modeling**
- **CG101: Rigging**
- **CG101: Texturing**

Honors & Awards

TOP 10 C++ Developers at oDesk Coding Champs
TOP 10 PC Graphics & TOP 20 HTML 4.01 Designer at oDesk ratings
2011 • Scholarship of M.S.Grushevsyy for talented students
2007-12 • More than 10 awards of the Ministry of Education and Science
2005 • More than 25 awards on student programming contests

Scientific Publications

The issues of the construction of a nested virtualization environments
Scientific journal "Young Scientist", issue number 9

Intellectual property
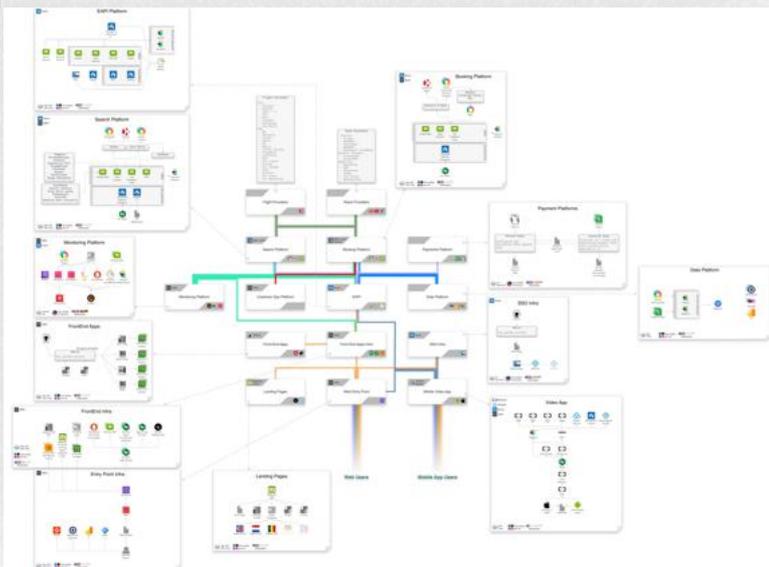
8 own active trademark

Thomas Cook

Thomas Cook brand was relaunched in 2020 under FOSUN holding an umbrella after the collapse of the original Thomas Cook Group. The idea was to lunch a 100% digital Online-Travel Agency that shares the values of the old Thomas Cook Group. Under the familiar brand, customers met a totally new digital platform that was made from scratch and with all the best practices of that time.

As a **Principal Architect**, the first step of the company relaunch was gathering requirements, restrictions and expectations from the platform. The special focus was on the long-term product and business vision, which are fundamental for the well-technical strategy. Second step – audit the intellectual property that we had from the old company, to find out what we can reuse.
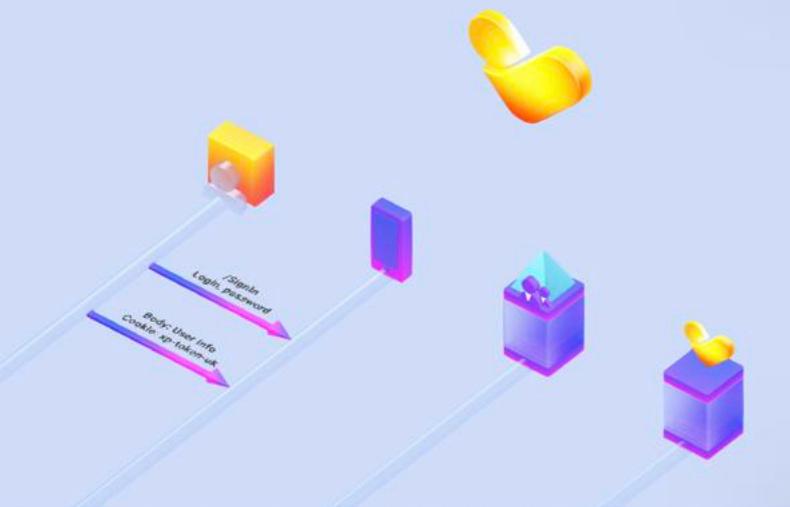
Next stage: redesign the platform from scratch based on requirements and existing IP. The platform was designed with opportunities to scale on the business's primary segments. Initially, I prepared eight different possible design options with ETA, Cost and roadmap for platform evolution projections. From a tech perspective - I've utilised micro-frontends, serverless, multi-channel approaches.

After the platform release, an important and big part of my job was aligning biz and tech teams and working with vendors to achieve business needs and implementing new functionalities and solutions. It was extremely important to validate and secure all terms, requirements and proposals on paper and diagrams in an easy-to-understand form.

As an architect, it was important to keep solutions implemented on time and with reliable budgets. One of the main constraints to achieving this goal - is the available human resources. To reduce this limitation, I designed a hard-skill motivation program and worked as an evangelist for its implementation. Despite hard skills, together with the site manager, we've worked as evangelists for a Spotify Rythm.

With strong startup background, I've tried to do more than just architecture, so, I've continuously analysed the TravelTech area and brought proposals for new functionalities and products, bring long-term tech vision, and introduced a Security Government structure.
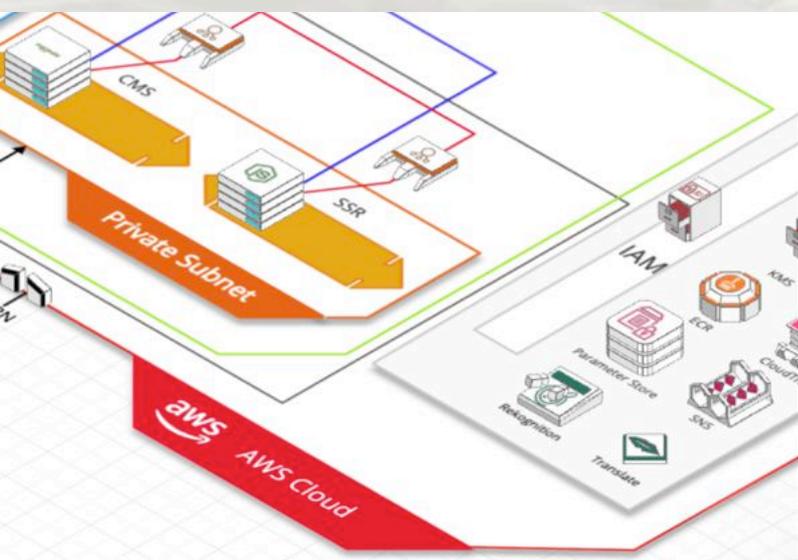
My portfolio of Solution Design under this employment includes RealTime Availability Search, Cross-Cloud Monitoring, DataLake, Content management and Generation, Mobile Apps, RPA and many more.
And a lot of integrations of different kins.
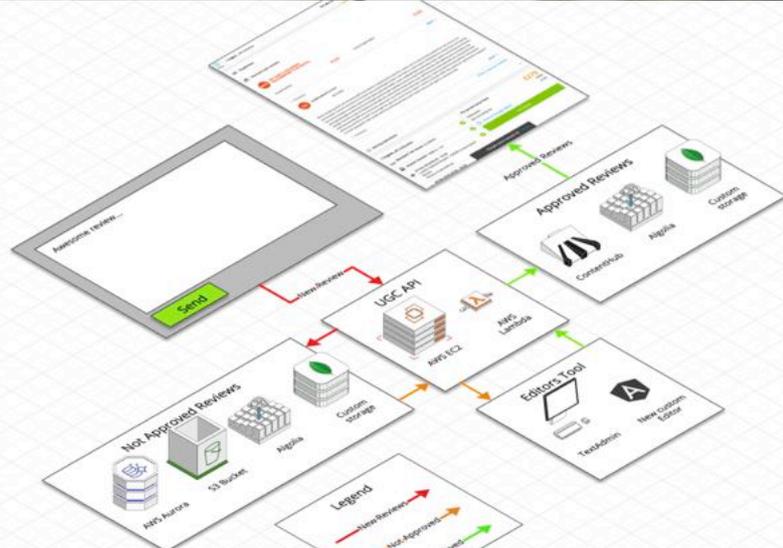
Thomas Cook Group

Thomas Cook Group was the first and most significant travel company in the world. Founded by an English businessman Thomas Cook at 1841, the company invented package tours. At 23 of September company entered liquidation...

Under TC Group, I was responsible for architecture of web-site channels of thomascook.com, airtours.co.uk, neckermann.be, neckermann.nl and thomascook.be markets

As a **Solution Architect**, I've prepared and handled technical roadmap for three years and a team of 9 squads, inc. resource structure, budgets, and solution proposals. I've worked with both. Hight Level Design and Low Level Design of applications.

I've beed responsible for migration projects from AngularJs to Angular 7, form RackSpace to AWS (including migration to cloud native architecture), and CMS group migration.

ROIster - is a smart AI platform for Ads account manager replacement. It was built by the same team that brings you **RWRD**. As a **CTO** and CoFounder, I've been responsible for all tech side of the project. From the beginning, we take a partnership with MGID (also know as MarketGid, part of FinAM holding). As a result, it was acquired by MGID after the first alpha version.

The heart of the system - is an engine, powered by **Machine Learning** algorithms. The ensemble of the neural network, genetic algorithm, and pure gradient boost give full Ads account manager replacement. The system made decisions by itself, what, when, and with what price to push into promotion.

RWRD is a mobile loyalty program. It makes it easy to run a unique loyalty program in 10-15 minutes.

We made integration with all major cash machines vendors. At the bottom of each receipt, we integrated a unique QR code. When a customer scans this QR code with our application - we are matching this receipt with the customer profile. At this moment, customer granted bonus points based on receipt amount. After matching - our system know what customer loves and generating unique personalized propositions.

With our own patented technologies, our solution can identify the customer before they entered the restaurant and grant all needed info to the waiter.
Another patented technology identify where exactly customer set and what he or she may like based on the scoring model.

You can try this solution at this Kyiv HoReCa networks:

Our scoring model is analyzing all items at customer receipt. It can identify when this receipt for a group of people and avoid broken scoring. Based on this analysis, it determines what product types and ingredients customer like.

Our mobile application has unique flexible UI that makes possible to change the feel and looks experience on the fly. Each restaurant and cafe has a unique experience inside one app.

Based on iBeacons, GPS, and custom triangulation algorithms that use WiFi and Bluetooth points built on custom hardware - we can identify user location with a precision of 20 centimeters.

Marketing activities are becoming more much simpler with **AI funnels**. Now marketer can make just setlist of smart criteria like 'regular guest' or 'going to celebrate' to identify unique proposition. And the context of this proposition will be personalized based on customer tastes.

appinion.io

Appinion is a second screen solution for TV shows. It gives TV show editors capabilities to make secure, anonymous voting. Our analytics gives extensible information about locations of watchers and activity during live streams.

This solution was used for all-hands voting during StartUp Battle, as a primary solution for social poll 'golos', as the primary voting channel for the TV show 'Quen of Ukraine', TV Show 'Svidok', and various TV shows at 'Hromadske TV' and '5 Channel'.

Since it was a startup, all back-end, front-end, and mobile design and implementation were made me, while founder worked on rising seed round investments and sales.
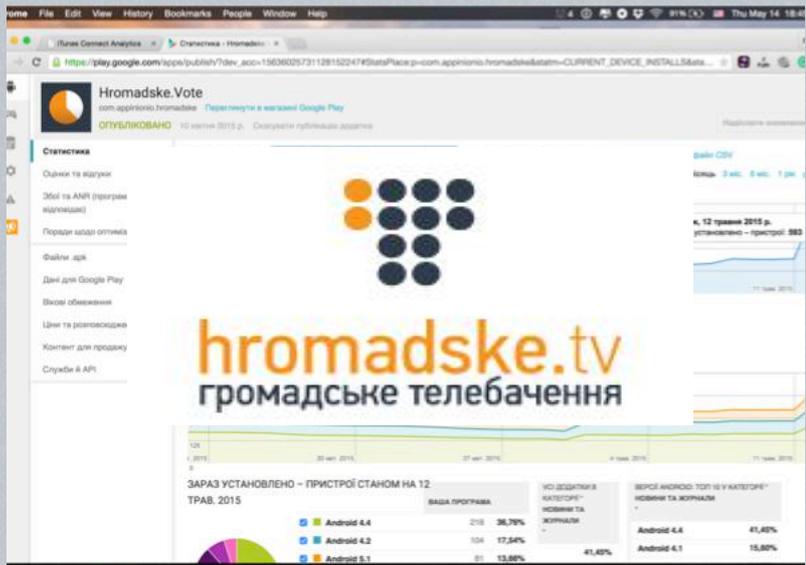
Unfortunately, due to lack of financing, after the seed round, we shut down the company

With our UI editor, TV show editors can configure application looks and feel, polls and live streams **without any line of code**.

For the first civil volunteer TV channel, that played a significant role during the Ukraine revolution at 2014-2015, we provided application for real-time voting for TV streams and TV shows.

5

For the most significant news TV channel of Ukraine, we provided mobile application, that used for live streams and real-time voting for TV shows and social polls.

For the Queen of Ukraine award, we provided voting service. It was the first time when application replaced traditional SMS/Text voting. We processed more than **300k** user votes during life TV stream
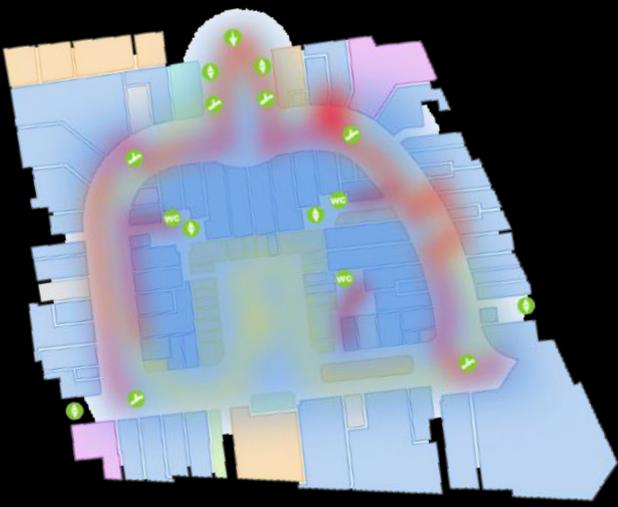
CleverMall is an in-door geolocation solution for shopping malls, airports, and HoReCa. Inspired by new apple iBeacons technology, I've quit from my job, took all my savings, and launched a startup.

The core idea of the solution is to provide users the same smooth navigation experience inside shopping malls as GPS car navigators. At the same time, we provided unique analytics to location owners and geo-location-based marketing channels. For example: if customer walking across the store for 3+ hours and never visited any cafe – we can give him push notification with a discount for the cafe. This gives us capabilities to increase the chance of spontaneous purchase.
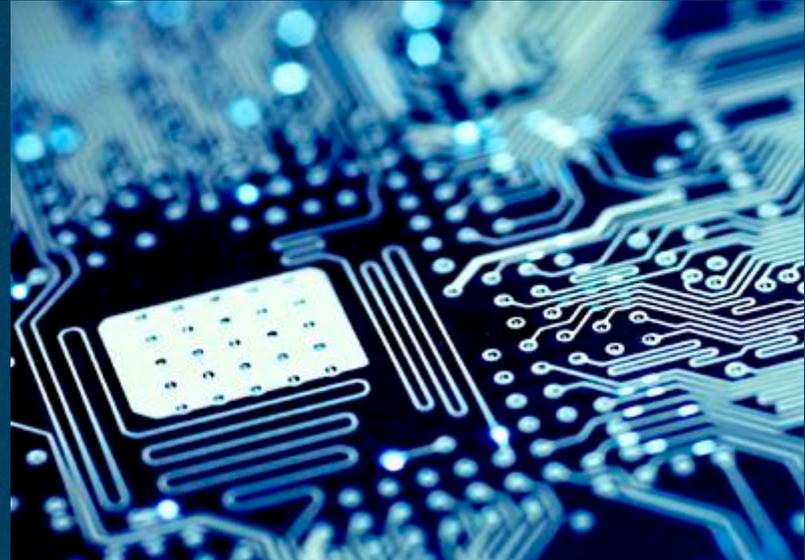
Due to the limitation of iBeacons technology, I've was pushed to design an algorithm that gives the ability to identify user location based on iBeacons signal proximity.

When a revolution happens at Ukraine (maidan at 2014), I've lost all my initial clients and get lack of funds before founded a new one. But all this technologies was reused later for RWRD project.

Based on user profile and user movements, we collected extremely comprehensive analytics and **heatmaps** of customers on the floor and at the stores. All this information gives to a rent-managers better understanding of how their customer flows go.

Due to iBeacon technology limitation, later, based on ESP8286 and ESP32 microchip, I've developed custom hardware solution, that combines **iBeacons**, **EddyStones**, **WiFi** and **Bluetooth sniffing**, and Bluetooth **radio-imprint** catcher. It was reused later for **RWRD** project.

A native mobile application was built with best in class power-saving approach. This is crucial for navigation application when the customer needs to be online for two and more hours.

Deep analytics and hight precision geo-location gives marketer incredible flexibility to build **geo-location, preference-based**, and **conditional** based marketing campaign, that adopts to user interests.

Thank you!

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