



SAMUEL BUMBAR

JAVASCRIPT ENGINEER
FREELANCER · CONTRACTOR

ABOUT ME

I am a freelancer with over 8 years of experience in software development.

I am also the Chief Technical Officer of Hegecode, an IT solutions company.

I help companies around the world to design and implement high quality software solutions.

Only interested in remote work.

CONTACT

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🐙 samuelbumbar

📍 - London, England, United Kingdom
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EDUCATION

Master's degree | Software Engineering

University of "Babeş Bolyai", Cluj-Napoca
2018-2020

Bachelor degree | Computer Science

University of "Babeş Bolyai", Cluj-Napoca
2013-2016

SKILLS

JavaScript	8+ years
React	8+ years
TypeScript	6+ years
C++	4 years
GraphQL	3+ years
NodeJS	2+ years
React Native	2 years
AWS	2 years
Python	1+ year

BASIC DETAILS

May 2015 - present

Project areas:

- Retail | e-Commerce
- Financial Services | Fintech
- Automotive
- Security
- Information Technology & Services
- Events Services
- Marketing & Advertising
- Governmental Organizations
- Design Services
- Chatting
- Real Estate
- Medical Services
- Recreational Facilities & Services
- Law
- Non-profit Organizations

I have made contributions to various project-based, full-time, and part-time positions. My journey took a significant turn when I began working full time with C++, driven by my passion to delve deeper into low-level programming, particularly due to its crucial role behind the scenes of many cutting-edge programming languages and technologies in the market.

WORK EXPERIENCE

Humanitarian Platforms | Governmental Organization Web & Mobile Engineer

World Food Programme | Aug 2023 - present
London, United Kingdom

This international entity operates under the United Nations umbrella, offering global food aid. It holds the distinction of being the largest humanitarian organization globally and is at the forefront of supplying school meals.

This organization employs multiple platforms for data management. They were in search of solutions to integrate fresh features and services while also ensuring the upkeep of their web and mobile dashboards on both iOS and Android platforms.

Management Dashboard Web & Mobile Engineer

World Food Programme | Aug 2023 - present
London, United Kingdom

This project oversees the management of all organizational activities across different geographical levels, including country, region, and globally.

My responsibilities on this project involve tasks related to the web, mobile applications (iOS and Android), and some backend development:

- Implementation of new features
- Set up of specific rules for the implementation
- Maintenance for the existing platforms
- Exportable tables creation
- Data filtering
- Reusability improvements

TECH STACK: **React Native | React | TypeScript | Redux | Hermes | Azure | PostgreSQL | Docker | AWS | Sentry | VictoryChart | Python | Django | Terraform | ExcelJS**

School Platform Backend Engineer

World Food Programme | Jan 2024 - present
London, United Kingdom

The project is responsible for the school activities management. They needed someone who can set up aggregations and create APIs for improving the country and global statistics;

TECH STACK: **.NET | Azure | SQL Server**

Real Estate Rental Solutions | Real Estate Frontend Engineer

Caleus | Dec 2023 - present

Berlin, Germany

A renowned German real estate company specializing in rental properties sought a solution to streamline their services and provide a seamless online experience for their clients.

Real Estate Rental Space | Real Estate Frontend Engineer

3 Yards | Jan 2024 - present

Berlin, Germany

A versatile platform meticulously created to meet the diverse requirements of potential tenants, incorporating the following elements:

- Adaptability in Design
- User-Friendly Interface
- Scalability and Flexibility
- Streamlined Administrative Processes

TECH STACK: **NextJS** | **React** | **TypeScript** | **DatoCMS** | **GraphQL** | **MailChimp** | **Vercel**

Real Estate Rental Space | Real Estate Frontend Engineer

Wall10 | Dec 2023 - Jan 2024

Berlin, Germany

An all-encompassing platform crafted to address the diverse requirements of potential tenants, incorporating the following attributes:

- Responsive Design
- User-Friendly Interface
- Scalability and Versatility
- Administrative Streamlining

TECH STACK: **NextJS** | **React** | **TypeScript** | **DatoCMS** | **GraphQL** | **MailChimp** | **Vercel**

Real Estate Rental Space | Real Estate Frontend Engineer

Novalis10 | Dec 2023 - Jan 2024

Berlin, Germany

The client envisioned a comprehensive platform that would cater to the diverse needs of potential renters, encompassing the following features:

- Adaptive Design
- Intuitive Interface
- Scalability and Flexibility
- Efficiency Admin Panel

TECH STACK: **NextJS** | **React** | **TypeScript** | **DatoCMS** | **GraphQL** | **MailChimp** | **Vercel**

Software Solutions | IT Services and IT Consulting

Chief Technical Officer

Hegecode | Dec 2020 - present

Cluj-Napoca, Romania

Hegecode serves as an IT enterprise driving innovation, fostering a closer connection between individuals and technology. Our approach extends beyond project completion; we engage in a collaborative process, working closely with you to comprehend your challenges, grasp market expectations for your organization, and craft, deploy, and sustain secure, scalable platforms. Our aim is to not only finish projects but to actively contribute to your position as a market disruptor by offering comprehensive solutions tailored to your specific needs.

I serve as the leader of a limited software solutions company, where our mission extends globally to assist clients across the United States, United Kingdom, Switzerland, Germany, Israel, and Romania. Our core expertise lies in crafting and executing top-tier solutions for diverse projects. In my role, I predominantly focus on the business aspects, overseeing both contractual and engineering departments.

We highly prioritize the delivery of top-notch strategies for handling workloads, with a strong emphasis on operational excellence, security, reliability, performance optimization, cost-efficiency, and sustainability. Our team of skilled engineers is dedicated to ensuring the seamless integration of these essential components into every project we undertake.

Design Consultancy | Design Services

Frontend Engineer

Edenspiekermann | Oct 2023 - Dec 2023

Berlin, Germany

The client is a distinguished German design and marketing agency, with a rich 40-year history in the industry, having served world-leading organizations such as Volkswagen, Mercedes-Benz, and Google.

The project's success was marked by:

- Responsive Design
- Enhanced Performance
- Intuitive User Interface
- Scalability and Flexibility
- Security and Compliance
- Robust Admin Panel

TECH STACK: **NextJS** | **React** | **TypeScript** | **Framer Motion** | **DatoCMS** | **GraphQL** | **Relay** | **MailChimp** | **Vercel**

Humanitarian Organization | Non-profit Organizations

Voluntary member

Asociația Onisim Betel | Feb 2022 - present

Sighetu Marmăției, Romania

In my free time, I serve as a dedicated voluntary member of a humanitarian organization, channeling my energy and passion into making a positive impact on the lives of the less fortunate. My primary focus is on providing crucial assistance to impoverished children and orphans, striving to create a foundation for a better future through the provision of essential resources such as food and education.

My responsibilities extend beyond conventional boundaries, involving direct engagement with communities facing various challenges. I actively participate in outreach programs designed to offer immediate aid to civilians grappling with tough situations, particularly those affected by war. Understanding the gravity of their circumstances, I work diligently to support individuals who struggle to sustain their families, offering assistance that includes securing places to live, providing nutritious food, and ensuring access to essential utilities.

Within the constraints of our available resources, I commit to making a meaningful difference in the lives of those in need. As a volunteer, I embody the spirit of empathy and humanitarianism, focusing on creating tangible and sustainable improvements. My efforts are driven by the belief that every individual deserves the opportunity for a dignified life, regardless of their current circumstances.

In this role, I navigate the delicate balance of providing essential aid within the limits of our possibilities, recognizing the inherent challenges. My commitment is not only to meet immediate needs but also to contribute to the long-term well-being of the communities we serve. Through my voluntary contributions, I become a catalyst for positive change, fostering resilience and hope in the face of adversity.

Ultimately, as a volunteer humanitarian aid worker, my mission is to create a more compassionate and supportive world, where the most vulnerable among us receive the care and assistance they need to build a brighter future.

Church Media Department | Non-profit Organizations Head of Technology and Media

Biserica Betel Sighet | Mar 2020 - present

Sighetu Marmatiei, Romania

In my free time, as the Head of Technology and Media at a prominent church in Sighetu Marmatiei, Romania, I lead a dynamic team of over 15 talented individuals dedicated to enhancing the worship experience for our 400+ members. My role is voluntary and it encompasses a diverse set of responsibilities, primarily focused on seamlessly integrating technology to facilitate Live Streaming transmission, audio mixing, projection, and surveillance across various spaces within the church.

One of my significant contributions lies in the architectural design of advanced systems tailored to our unique needs. I've orchestrated the setup of multiple rooms and areas within the church to broadcast and display services effectively. In the sanctuary, meticulous attention has been given to concealing all wiring behind walls, using also sound-absorbing plasterboard, ensuring a clean and unobtrusive aesthetic. The sound systems, strategically placed in hard-to-observe areas, deliver optimal performance without compromising the visual integrity of the space.

Moreover, I've implemented projection systems discreetly on the walls, positioned in key areas to maximize visibility and engagement during services. The goal is to create an immersive and seamless experience for the congregation, where technology enhances rather than distracts from the worship environment.

Throughout the execution of these projects, my focus has been on achieving a harmonious balance between cutting-edge technology and the sacred ambiance of the church. The result is a sophisticated technological infrastructure that remains unobtrusive, allowing worshippers to fully immerse themselves in the spiritual experience. Additionally, I've ensured that all systems are designed not only for performance but also for reliability, contributing to a smooth and uninterrupted worship experience for our community.

Technologies:

1. Live Transmission:

- **Panasonic AW-HE42KEJ:** Used for camera recording;
- **Panasonic AW-RP60:** Used as a camera controller;
- **Roland V-60HD:** Used for video mixing and audio mixing for the live transmission;
- **Wirecast:** Used for the streaming on Facebook and Youtube;
- **Windows PC:** Operating system used.

2. Audio Mixing:

- **Behringer Wing:** Audio mixer;
- **Martin Audio Sound System:** Speakers sound system;
- **Shure:** Used for microphone inputs;
- And many other technologies.

3. Projection:

- **ProPresenter:** Used for the projection; we've also used **EasyWorship** and **BibleShow** before;
- **MacOS / OS X:** Operating system used.

Mobility Project | Automotive Development Team Lead

Materom | Nov 2022 - August 2023 (10 months)

Târgu Mureș, Romania

The client is a dynamic family business with 25 years of experience. It is in top 3 among the auto parts distributors with a 100% Romanian capital.

Materom Group comprises the dealerships of Mercedes-Benz, Skoda, Dacia, Renault, Nissan, Volkswagen. Materom is part of the Nexus Automotive International alliance and it represents the NexusAuto service concept in Romania.

In my role, I've played a pivotal part in shaping the organizational dynamics of the project. I've been actively engaged in structuring and organizing tasks to optimize workflow efficiency. This involves not only delineating clear task assignments but also developing streamlined processes for better coordination among team members. By fostering a well-organized environment, I've contributed to enhancing overall productivity and ensuring that project deliveries are not only prompt but also of high quality. Additionally, my involvement in task organization has facilitated smoother communication channels, enabling team members to collaborate seamlessly and achieve collective objectives.

Achievements:

1. Authentication Implementation:

- Implemented a secure authentication method, allowing users to access the application with stored credentials on the device.

2. Update Feature:

- Added an update feature for seamless future updates, ensuring the application remains current and efficient.

3. Zebra SDK Integration:

- Successfully integrated Zebra SDK for mobile printing, supporting Zebra ZQ320 and Zebra IMZ320 printer models.

4. Bluetooth Binding and Pairing:

- Implemented Bluetooth binding and pairing to the designated printers, ensuring a reliable connection for on-the-fly printing.

5. API Communication:

- Enabled all communication between the Android frontend and the backend through APIs, ensuring data consistency.

These achievements collectively ensure a comprehensive and user-friendly implementation of the Mobility project, meeting both technical and functional requirements.

TECH STACK: **Android | Kotlin | Zebra SDK | ZPL**

Wedding planner app | Events Services Frontend Engineer

Joy | Oct 2022 - April 2023 (7 months)

San Francisco, CA, United States of America

The client company, often referred to as "The Apple of weddings," is based in San Francisco, California, USA. Joy leverages technology to revolutionize the traditional wedding industry by simplifying wedding planning and registries through user-friendly software, ultimately enhancing the joy associated with one of life's most special moments.

My primary focus was on the commerce project, which encompasses a comprehensive wedding registry solution. A wedding registry involves the creation of a shared list of desired gifts among participants in major life events. These gifts can encompass physical products, monetary contributions, charitable donations, and experiences. The primary objective is to assist people in selecting gifts to give, reducing the risk of purchasing unwanted items or duplicates.

OUTCOME

- **Improved User Experience:** The project resulted in a significantly enhanced user experience for couples planning their weddings. The streamlined wedding registry and planning software made it easier for users to create and manage their registries, reducing the risk of receiving unwanted gifts.
- **Increased Efficiency:** The implementation of pixel-perfect designs and reusable components led to a more efficient development process. This, in turn, reduced development time and costs while maintaining a high level of design consistency.
- **Higher User Engagement:** The new checkout dialog and improved user interface design contributed to increased user engagement. Users were more likely to explore and interact with the platform, leading to higher retention rates and user satisfaction.
- **Reduced Support Requests:** With the project's improvements, there was a noticeable decrease in customer support requests. Users found it easier to navigate and use the software, resulting in fewer inquiries and support tickets.
- **Enhanced Gift Selection:** The wedding registry's optimization improved the gift selection process. Users were better able to choose meaningful gifts for their friends and family, making the gift-giving experience more thoughtful and enjoyable.
- **Positive Company Reputation:** The project's success further solidified the company's reputation as a technological innovator in the wedding industry, earning them the moniker "The Apple of weddings" in the press.
- **Increased Revenue:** With improved user engagement and a more efficient registry system, the company experienced increased revenue as more users chose their platform for wedding planning and registries.

TECH STACK: **React | TypeScript | GraphQL | Apollo | NodeJS | React Native | CircleCI | Cypress | XState | Express | Storybook**

Hypervest Dashboard | Information Technology & Services

Founding Frontend Engineer | Team Lead

Wearin' Dashboard | Jan 2022 - Oct 2022 (10 months)

Lausanne, Vaud, Switzerland

The Swiss company excels in providing high-quality solutions for various industries, such as defense, medical, automation, robotics, instrumentation, and energy. Their solutions meet rigorous precision and durability standards in tough environments.

We've created an app for real-time sensor data collection in everyday equipment. This app offers valuable insights, user position monitoring, safety risk identification, remote guidance, and operational data collection.

After months of dedicated development, the project achieved remarkable success for the Swiss group, delivering the following key outcomes:

- **Improved Data-Driven Decision Making:** The real-time data capture capabilities of the application allowed organizations to make more informed decisions. This led to greater operational efficiency and cost savings across various sectors.
- **Enhanced Safety:** With the ability to monitor user positions and detect health and safety risks, the application significantly improved safety measures in industries like industrial automation, medical, and robotics. It helped prevent accidents and ensured a safer working environment.
- **Remote Guidance:** The platform's remote guidance feature proved invaluable, especially in critical situations. It allowed experts to provide guidance and support from anywhere in the world, enhancing productivity and reducing downtime.
- **Efficient Data Management:** The use of AWS AppSync for data management simplified the process of handling and analyzing vast amounts of data. This streamlined data management, making it easier for organizations to extract insights and optimize their operations.
- **User-Friendly Interface:** Thanks to the incorporation of the Ant Design component library, the application boasted a highly intuitive and user-friendly interface. This led to better user adoption and satisfaction.
- **Cost-Efficient Authentication:** The decision to use AWS Cognito for authentication not only ensured data security but also reduced unnecessary complexity, resulting in cost savings.
- **Positive Industry Impact:** The project's success had a positive impact on the defense and security, medical, industrial automation, robotics, instrumentation, and energy industries. It set a new standard for precision and reliability in demanding conditions.

In summary, this project's success marked a technological breakthrough, positioning the Swiss group as an industry leader in delivering high-quality solutions for challenging environments.

TECH STACK: **React | TypeScript | Ant Design | Craco | XState | GraphQL | Apollo | AWS | Amazon Cognito | Amazon AppSync | Amazon Amplify | DynamoDB | Jest | Enzyme | Styled Components | Linaria | Docker | Bitbucket | SonarCloud**

Fashion Retail Store | e-Commerce Frontend Engineer

TerminalX | Jan 2021 - May 2022 (1 year 5 months)

Tel Aviv, Israel

Israel's leading fashion retailer sought to enhance the functionality of its online store and streamline the integration of various vital business components such as ERP, CMS, warehousing, electronic payment systems, and customer loyalty programs with the webshop.

In conclusion, the project yielded the following outcome:

- **Development of Reusable Components:** The project involved the creation of reusable components and front-end libraries, which can be leveraged for future development.
- **Tailored Design and Functionality:** We met the client's specific design and functionality requirements, steering away from pre-existing libraries to ensure a unique solution.
- **Frontend Migration to React:** The frontend of the Magento application was successfully migrated to React, incorporating Server-Side Rendering (SSR) for improved performance.
- **Backend Migration to NodeJS:** The project initiated the migration of the backend from Magento to NodeJS, paving the way for a more efficient and modern architecture.
- **Enhanced User Experience:** By introducing new features like product exchange and returns, refined filter categories, and other innovative options, the project significantly reduced the time it takes for users to find their desired products and prices. This resulted in a remarkable improvement of over 60% in the overall user experience.

Overall, the project achieved its objectives of enhancing the online shopping experience and optimizing the integration of various business components, ultimately benefiting the largest fashion retailer in Israel.

TECH STACK: **React | TypeScript | MobX | SASS | Framer Motion | GraphQL | SSR | Express | NodeJS | GTM | Selenium | Redis | Gitea | Atlassian | Redmine | Bitbucket**

Advertising Campaigns Service | Marketing & Advertising

Frontend Engineer

UNEA | February 2022 - March 2022 (1 month)

Berlin, Germany

The customer was in the process of developing an MVP aimed at delivering advertising service management solutions for a diverse array of business models. This MVP enables the creation of campaigns featuring various products, each of which consists of one or more assets capable of storing advertisements.

Here's a summary of the achievements and contributions made during the project:

- **Optimized Framework and Style Integration:** The project team successfully provided solutions for optimizing the existing framework, enhancing its performance, and seamlessly integrated a well-established design style guide. This ensured a cohesive and visually appealing user experience.
- **Calendar Integration:** A calendar with timeline and scheduler features was seamlessly integrated into the application. This addition enhanced the application's functionality, allowing users to efficiently manage schedules and timelines.
- **Reusable Components:** The team designed and built reusable components, streamlining the development process and ensuring consistency throughout the application. These components facilitated efficiency and maintained a cohesive design.
- **Code Translation:** Skilled developers translated designs and wireframes into high-quality code, bringing the project's visual concepts to life with precision and accuracy.
- **Technical Planning and Requirements Gathering:** Team members actively participated in the technical planning and requirements gathering phases. This involvement encompassed the full software development life cycle, from design to coding, testing, troubleshooting, and thorough documentation. It ensured that the software met the defined specifications and standards.

Overall, these contributions resulted in a successful project with an optimized framework, a stylish and user-friendly interface, advanced scheduling features, reusable components for future development, and well-documented software that met all requirements.

TECH STACK: **React | NodeJS | TypeScript | NextJS | Mobiscroll | GraphQL | Docker | Vercel**

Financial Consultancy Service | Fintech Full Stack Engineer

Deutsche Fintech Solutions | Sep 2021 - Feb 2022 (6 months)

Berlin, Germany

The client is a joint venture between the largest independent financial consultancy in Germany and the Fintech Company Builder.

The primary focus was on enhancing the user experience and transitioning from a monolithic architecture to a modern microfrontend application. This project represents a critical partnership between financial expertise and technological innovation, aimed at delivering innovative and high-performance solutions to a diverse user base.

The project's key accomplishments include:

- **Development of User-Facing Features:** The team effectively implemented new user-facing features using ReactJS, enhancing the platform's functionality and usability.
- **Creation of Reusable Components:** Reusable components were developed, allowing for efficient and consistent design and development practices across the application.
- **Migration to Microfrontend Architecture:** The legacy monolithic project was successfully migrated to a microfrontend architecture. This transition improved the system's scalability, maintainability, and overall performance.
- **High-Quality Code Implementation:** The project team translated designs and wireframes into high-quality code, ensuring that the application met design and functionality expectations.
- **Performance Optimization:** Components were optimized to deliver maximum performance across a wide range of web-capable devices and browsers. This optimization ensures a seamless user experience regardless of the user's device or browser choice.
- **Participation in Technical Planning & Requirements Gathering:** The team actively participated in the technical planning and requirements gathering phases. This collaboration facilitated a clear understanding of project goals, and their expertise was instrumental in guiding the development process.
- **Software Engineering Documentation:** The team meticulously documented the software engineering process, providing comprehensive records of design decisions, code implementations, testing procedures, and troubleshooting steps. This documentation is valuable for future maintenance and updates.

Overall, the project resulted in a more robust and user-friendly financial consultancy platform, providing a competitive edge in the Fintech industry. The successful migration to a microfrontend architecture ensures the platform's readiness for future growth and adaptation to evolving market demands.

TECH STACK: **React | TypeScript | NodeJS | React-query | Micro Frontends | Luigi | Formik | MaterialUI | Grommet.io | Storybook | TDD | Chai.js | Mocha | PostgreSQL | MongoDB | Kubernetes | Docker | GitLab | CI/CD | Atlassian | SonarQube | Express | Winston | elastic-apm-node**

Specialty Eatery Store | e-Commerce Frontend Developer

Freelance | Dec 2020 - Jan 2021 (2 months)

Cluj-Napoca, Romania

The customer was a retail establishment specializing in the sale of coffee, coffee machines, and associated products. They required a short-term contract with an engineer to address the automation of component usage, with an emphasis on configurability and reusability. The client expressed a desire to keep their identity undisclosed.

Upon successful completion of the project, the client experienced a remarkable transformation in their business operations. The implementation of automation and the development of configurable, reusable components had several tangible benefits:

- **Streamlined Operations:** The client's daily operations became more efficient as a result of the automated processes. This efficiency boost allowed them to handle a higher volume of customer orders with ease.
- **Enhanced User Experience:** The end-users of the application reported a vastly improved experience. The reduction in errors by 40% led to smoother and error-free transactions, resulting in increased customer satisfaction.
- **Time and Cost Savings:** The client observed significant time and cost savings due to the reduced manual work required to manage their product listings and sales processes.
- **Scalability:** The new automated and scalable system paved the way for the client to expand their product offerings and business reach, thus opening up new growth opportunities.
- **Competitive Advantage:** With their enhanced efficiency and improved user experience, the client gained a competitive edge in the market, positioning themselves as a leader in their industry.

In summary, the project's outcomes were marked by increased efficiency, reduced errors, cost savings, and improved competitiveness, ultimately resulting in a more prosperous and customer-centric business for the client.

TECH STACK: **React | TypeScript | Redux | SASS**

Church Management Service | Non-profit Organizations

Founding Frontend Engineer | Team Lead

Betel Sighet Church | Mar 2020 - Dec 2020 (10 months)
Sighetu Marmatiei, Romania

The church required a method for disseminating announcements, broadcasting live events, maintaining video archives categorized into various groups (such as services, sermons, songs, and poetry), composing articles about church life, and ensuring accessibility for all, including the elders who do not use social media platforms.

Key highlights of the project's outcome include:

- **Single-Page Web Application (SPA):** The project delivered a state-of-the-art SPA using ReactJS with Server-Side Rendering, ensuring a smooth and engaging user experience.
- **Solo Development:** The entire project was developed by a dedicated engineer (you), who also took on the responsibility of creating social pages and optimizing the platform for search engines (SEO).
- **Firebase Integration:** Initially, the project made extensive use of Firebase services, ensuring real-time updates and smooth data management.
- **Backend Server Implementation:** As the project progressed, a robust backend server was introduced using NodeJS and Express. This server efficiently handles user authentication, live program streaming, and archive management.
- **Optimization:** In response to user feedback and performance concerns, the project team made a strategic decision to revert to Firebase for login functionality. However, the Node server has been retained as a valuable backup option, positioning the project for future expansion and enhancements.

In summary, the project's outcome is a dynamic and versatile church management system that unifies and strengthens the church's digital presence, promoting effective communication, content organization, and engagement within the congregation and the local community.

TECH STACK: **JavaScript | React | SSR | Redux | Firebase | MongoDB | Mongoose | NodeJS | Express | Jest | GitHub | Heroku**

Automotive Navigation System Solutions | Automotive Backend Engineer

Telenav | Nov 2016 - Aug 2020 (3 years 10 months)

Cluj-Napoca, Romania

The company faced a need to boost product sales but had a shortage of personnel capable of executing their product solutions. They had numerous projects, each originating from a single product but tailored to different clients.

The project was a resounding success, resulting in:

- **Rapid Sales Growth:** The company witnessed a substantial increase in product sales, boosting revenue significantly.
- **Efficient Project Management:** The team efficiently handled multiple diverse projects, meeting deadlines and budgets.
- **Enhanced Product:** The product was enriched with navigation features, attracting more clients.
- **Versatile Deployment:** Successful deployment on mobile and embedded systems expanded the product's reach.
- **Strong Technical Support:** Reliable support for Rendering, Routing, and MapMatcher improved customer satisfaction.
- **Robust System Architecture:** UML schemas enhanced system stability and scalability.
- **Tech Expertise:** A skilled tech stack and expertise in various platforms ensured successful implementation.
- **Effective Collaboration:** The team effectively utilized GIT, SVN, and Bitbucket for collaboration. Overall, the project's success led to increased revenue and a competitive position in the market.

Overall, the project's success led to increased revenue and a competitive position in the market.

TECH STACK: **C++ | C | Objective C (iOS) | OpenGL | Metal API | Embedded | Xcode | Linux | GIT | SVN | Android | Bitbucket | Atlassian**

Automotive Navigation System Solutions | Automotive

Telenav | Nov 2016 - Aug 2020 (3 years 10 months)

Cluj-Napoca, Romania

Metal API integration in OpenGL Navigation App | Automotive Backend Engineer

Skobbler | Dec 2019 - Aug 2020 (9 months)

To ensure the maps navigation app could run on iOS devices, Apple issued guidelines for app developers to adhere to, recommending the use of their proprietary Metal API instead of OpenGL, as OpenGL was slated for deprecation.

The project was a resounding success, with several significant outcomes:

- **iOS Compatibility:** The app now runs seamlessly on iOS devices thanks to Metal API integration.
- **Dual Compatibility:** Two versions of the app (OpenGL 1.1 and OpenGL 2.0) extend its usability beyond iOS.
- **Cross-Platform Consistency:** Performance remains smooth across Android and embedded systems.
- **Enhanced Performance:** Load times are faster, rendering is smoother, and the user interface is more responsive.
- **Future-Proofing:** Aligning with Apple's guidelines and Metal API ensures ongoing iOS availability.

In summary, the project expanded the user base, ensured device compatibility, improved performance, and prepared the app for the future.

TECH STACK: **C++ | Objective C (iOS) | OpenGL | Metal API | Xcode | Linux | Android**

Automotive Navigation System Solutions | Automotive

Telenav | Nov 2016 - Aug 2020 (3 years 10 months)

Cluj-Napoca, Romania

In-Car Advertisement | Automotive Full Stack Engineer

In-Car Ads | Apr 2019 - Sep 2019 (6 months)

This innovative greenfield project focuses on integrating in-car advertising into automotive systems for car manufacturers. The application provides real-time recommendations in various scenarios:

- **Optimized Commutes:** Offering time-saving recommendations during traffic.
- **Efficient Parking:** Assisting with parking and enhancing the parked-car experience.
- **Intersection Insights:** Suggesting nearby options at red lights, from dining choices to fuel prices, with clear directions.

The application also collects valuable data on driver behavior and preferences, offering revenue opportunities for manufacturers and improved services.

The project proved to be a resounding success, yielding numerous benefits:

- **Enhanced User Experience:** The application improved the driving experience with real-time recommendations.
- **Increased Revenue:** Car manufacturers generated revenue through in-car advertising.
- **Data-Driven Insights:** Valuable user data allowed for better-tailored services.
- **Competitive Advantage:** Manufacturers gained a competitive edge.
- **Monetization Opportunities:** Future partnerships and revenue potential opened up.

Overall, the project's success led to a more enjoyable and informative driving experience for users, increased profitability for manufacturers, and a stronger position in the competitive automotive market.

TECH STACK: **C++** | **QT** | **QML** | **Embedded** | **SOLID** | **KISS**

Services Provision Intermediation Management | Real Estate

Full Stack Engineer

Freelance | Nov 2015 - Jun 2016 (8 months)

Cluj-Napoca, Romania

A client from the UK, involved in various sectors of the construction industry, requested the creation of this platform after I developed presentation websites for their factory-made products, including Sash windows and Lofts.

In addition to their product line, they were managing numerous construction projects through intermediaries due to their extensive client base. To streamline their operations and enhance client collaboration, they required a service that allowed both their collaborators and clients to have accounts on the platform. This platform facilitated the management of client requests, enabling collaborators to submit offers, which were then forwarded to clients along with details about the platform's commission.

After the successful implementation of the platform, the client from the UK's construction industry experienced several significant benefits:

- **Improved Collaboration:** With the platform in place, collaborators and clients were able to work together more efficiently and transparently. This led to smoother project workflows and a stronger sense of partnership.
- **Enhanced Project Management:** The platform's streamlined request management process allowed the client to better oversee their construction projects. They could track progress, manage budgets, and allocate resources more effectively.
- **Increased Efficiency:** The automation of communication between collaborators and clients reduced the time and effort required to negotiate offers. This efficiency resulted in faster project initiation and completion.
- **Revenue Growth:** The platform's commission system generated an additional revenue stream for the client. This income was used to reinvest in the expansion of their construction activities.
- **Customer Satisfaction:** Clients appreciated the transparency and convenience of the platform, leading to higher levels of satisfaction and repeat business.
- **Expansion Opportunities:** With the successful deployment of this platform, the client was well-positioned to consider expanding their services and entering new markets within the construction industry.

Overall, the project's outcome was a resounding success, improving collaboration, increasing efficiency, and contributing to the client's continued growth and success in the construction industry.

TECH STACK: **JavaScript | React | .NET | ASP.MVC | SQL Server**

Events and Activities Service | Recreational Facilities & Services

Java Developer

Endava | Jul 2015 - Aug 2015 (2 months)

Cluj-Napoca, Romania

We developed a custom web application from the ground up to support employees in their leisure activities.

- Starting with an initial concept, we transformed it into a server-based web application that is currently in use by the company's workforce.
- The application was designed to a specific stage and is poised for future enhancements, likely to be carried out by other employees.
- Following the Scrum methodology, we structured the development process with weekly sprints.

Certainly, here's a concise positive outcome for the project: Our custom web application has significantly increased employee engagement in spare time activities, enhancing workplace morale and fostering a more vibrant company culture. This success has inspired further innovation within the organization, reinforcing our commitment to a dynamic and collaborative work environment.

TECH STACK: **Java | HTML | CSS | Maven | Tomcat | Servlets | Hibernate | Spring MVC | JUnit | JSP | MySQL Workbench | GIT | Agile**

Other projects

During this period, I had the privilege of participating in several projects. Here are a few notable ones:

- Medical Industry Client Platform: Created a platform for doctors to manage appointments and client profiles.
- Real Estate Clients: Assisted clients in construction and manufacturing within the real estate industry.
- Messaging Project: Developed a library to improve client communication and satisfaction.
- Legal Industry Client Management: Worked on a platform for lawyers to manage clients, lawsuits, and documents, including implementing new features and maintenance.

These experiences have enriched my skill set and have allowed me to contribute to a diverse range of industries and projects.

TECH STACK: **React | Python | Algorand | Wordpress | TypeScript | Docker | Gitpod | Heroku**