Erban Danaj *Software Engineer*

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🪪 Professional Summary

Driven Full-Stack Developer with 4+ years of hands-on experience building innovative web and mobile platforms. Frontend and 3D enthusiast with a deep focus on backend architecture. With an extensive background in the full software development lifecycle, having developed more than 30 web and mobile applications spanning various markets. Proficient in TypeScript ecosystem with a focus on React, Next.js, and Node.js frameworks. Currently building scalable backend solutions while maintaining frontend expertise, alongside learning Go and Generative AI.

🎗 Skills

JavaScript · TypeScript · API design and development · Next.js · React · Node.js · Redux · Cloud computing (AWS, Azure) · React Native · SQL · NoSQL · Docker · Express · CSS · REST API · Data Structures and Algorithms · CI/CD · Web/mobile development · Git · Python · Django · tRPC · GraphQL · Kubernetes · PostgreSQL · MongoDB · Prisma · ORM · Data visualization · Data Processing · Cypress · Jest · Testing Library · Accessibility · Test-driven development · Tailwind · Styled Components · Three.js · Framer Motion · Object-oriented programming (OOP) · UI/UX Design · Agile Methodologies · WebSockets/Socket.io · Authentication/JWT · SEO Optimization · RAG (Retrieval Augmented Generation) · AI Agents · Clean Code

💼 Work Experience

Software Engineer, The Coaching Masters 🔗   Jan 2024 – present | Remote, Poland
Building scalable EdTech solutions with a focus on video streaming and operational efficiency.
- Architected and developed comprehensive internal systems including admin dashboards, workflows, pipelines, and document collaboration tools using Next.js frontend and Nest.js backend for the operations team.
- Implemented video processing pipeline handling hundreds of videos for 16K+ users, improving streaming performance by 40%, and designed and trained a RAG chatbot from scratch with custom knowledge base integration.
- Led DevOps initiatives including Docker containerization and CI/CD pipeline optimization while managing complete database design and implementation, optimizing for scale and performance.
- Engineered payment systems with seamless Stripe integration while contributing to ideation, technical design, and product launches, implementing best practices in coding, testing, and deployment to ensure high performance and responsiveness.

Software Developer, Freelancer 🔗   2020 – present | Albania, UK, Sweden, Poland, USA
Developing innovative applications while exploring cultures and learning along the way.
- Built and shipped over 30 projects for clients ranging from friends' startups to established local businesses, handling the entire development lifecycle from initial concept to deployment and maintenance.
- Worked remotely while traveling through Europe and working in hospitality, giving me unique insights into diverse user perspectives. Currently developing a reservation system for a dentist I met along the way, turning casual connections into professional opportunities.
- Created feature-rich solutions that directly improved clients' business metrics, including a car showroom with 3D models that increased visitor engagement by 50%, while crafting numerous personal websites with custom designs focused on SEO optimization and performance.
- Demonstrated versatility by successfully delivering projects across diverse sectors including a clothing industry design platform, hospitality tech solutions, entertainment gaming applications, HR job search tools, and a unique scent-based app for the perfume industry. Expanded my portfolio with innovative projects like a comprehensive travel planning app using AI, a metaverse marketplace, a real estate platform, and a social media image generator. Practiced test-driven development and accessibility-first design in most projects, contributing to higher user retention and satisfaction rates.

Full Stack Developer, Spin City Records 🔗   Mar 2023 – Aug 2023 | Remote, Poland
Spin City Records is the initial prototype for a worldwide peer-to-peer vinyl e-marketplace.
- Led system architecture and designed a MySQL database using Prisma ORM while building the application with the T3 stack (TypeScript, tRPC, Tailwind), establishing a scalable and maintainable codebase
- Established secure two-way tRPC connections that reduced communication delays by 20%, thus improving the reliability of the platform
- Leveraged Next.js to enhance server-side rendering (SSR) and SEO optimization, which increased the application's performance by over 30%
- Implemented a custom Stripe payment flow with JWT Authentication, enabling secure transactions while collaborating in a four-person team using trunk-based development and agile methodologies

Quality Assurance Specialist, Auto1 Group 🔗   Jan 2021 – Feb 2022 | Hybrid, Albania
Auto1 Group is Europe's leading digital automotive platform.
- Conducted online vehicle inspections and thorough testing of the platform to ensure functionality, identifying and documenting issues to maintain high-quality standards, and contributed significantly to maintaining and optimising the back-end system, implementing systematic processes and protocols to enhance operational efficiency.
- Increased sales and transparency by 10% by correcting information on already listed cars, consequently improving the user experience and customer satisfaction.

🌐 Projects

Software Developer, Smart Trip 🔗
Independently developed the initial prototype of a travel assistant app for vacation planning using OpenAI and Google Places/Maps integration. The app enables users to discover top attractions, create personalized itineraries, and optimize their travel experience. This project has attracted potential investors and was transitioned to TypeScript by two additional developers, with plans for future monetization.
- **Stack**: React, Axios, Node.js, Express, Firebase/Firestore, Jest & Cypress for testing

Software Developer, Covid-19 Dashboard 🔗
Created a real-time data visualisation tool for Covid-19 statistics worldwide. The integration of Chart.js for interactive charts and Leaflet for global heat-maps, complemented by JWT authentication and a PostgreSQL database, significantly enhanced user engagement.
- **Stack**: React, Node.js, Express, Axios, JWT, PostgreSQL, Prisma, Chart.js, Leaflet, Jest, Docker

🎓 Education

Bachelor of Science in Computer Engineering (BSc), Epoka University   Sep 2016 – Jul 2020 | Tirana, Albania

Software Engineering Immersive, Codeworks   Jan 2023 – Aug 2023 | Remote