

Oleg Mercalov

Senior Full Stack Developer



mercalovoleg03@gmail.com



My Portfolio



Kyiv, Ukraine



<https://github.com/mercalovoleg03/>

Profile

I'm a **Full Stack Developer with over 6 years of experience** designing, building, and deploying scalable web applications. My expertise spans **JavaScript, Python, PHP, and frameworks such as React, Next.js, Vue.js, and Nuxt.js**, with a strong focus on creating performant, secure, and maintainable systems. I'm skilled in **Node.js, Express, Django, and RESTful API development**, as well as **database design and optimization** using MongoDB and PostgreSQL. I've delivered solutions that integrate **AI, automation, and cloud platforms (AWS, Azure, GCP)** to streamline business processes and improve user experience. I take pride in combining clean engineering practices with practical innovation—helping teams and clients turn complex ideas into reliable, efficient products that scale with their growth.

Education

2016 – 2020
Kyiv, Ukraine

State University of Infrastructure and Technology,
Bachelor of Science 

Professional Experience

09/2024
Kyiv, Ukraine

Senior Full Stack Developer, Self-employed

- Architected and maintained RESTful APIs using Node.js, MongoDB, and PostgreSQL, implementing advanced caching and query optimization to boost performance by 45% and ensure long-term system stability.
- Implemented enterprise-grade authentication and authorization frameworks—including OAuth 2.0, JWT, and Passport.js—to secure APIs and protect sensitive business data.
- Engineered data analytics modules leveraging Python (Pandas, NumPy), Express.js, and Google Places API, integrating MongoDB geospatial queries for real-time, precision-based processing and improving data handling efficiency by 40%.

07/2021 – 05/2024
Kyiv, Ukraine

Full Stack Developer, Progforce

- Enhanced system reliability and scalability by implementing distributed architecture with Node.js and RabbitMQ, reducing downtime incidents by 20% and improving throughput under heavy workloads.
- Transitioned application architecture from REST API to GraphQL, achieving faster data retrieval and reducing redundant API calls by 25%, improving developer efficiency.
- Developed full-stack web application from inception using React and Node.js, optimizing user experience and proactively improving AWS infrastructure, which decreased deployment times by 25%.
- Built and launched a catering platform with Python and Django, integrating Stripe for seamless payments and automating core operations, leading to a 10% reduction in manual workload.
- Engineered scalable front-end applications utilizing TypeScript and React; application performance improved by 30% and supported a 15% increase in concurrent users while maintaining zero downtime.

09/2019 – 03/2021
Kyiv, Ukraine

Web Developer, 8kolo

- Engineered an interactive web application for PDF viewing and editing, while modernizing the company's main website to enhance engagement and increase user retention by 30%.
- Designed and executed A/B testing experiments for new product features, leveraging user analytics to guide product strategy and drive a 15% improvement in feature adoption.
- Built and optimized a fintech web platform using React, Next.js, and Node.js, enhancing UI responsiveness and streamlining AWS deployments to cut release times by 13%.
- Engineered scalable front-end applications utilizing TypeScript and React; application performance improved by 30% and supported a 25% increase in concurrent users while maintaining downtime.
- Developed engaging client-side experiences using HTML, CSS Modules, and React, elevating user interactivity and maintaining responsive design across all major platforms.

Skills

Frontend

JavaScript, TypeScript, React, Vue.js, Angular.js, Next.js, Nuxt.js, Svelte, TailwindCSS, MUI, Shadcn/ui

Backend

Node.js, Express.js, Python, Django, PHP, Laravel

Database & Storage

MySQL, PostgreSQL, MongoDB, Redis, SQLite, Firebase, Supabase

Cloud

DevOps, AWS, Azure, Google Cloud Platform

Projects

Evengreener

Engineered a scalable, eco-friendly e-commerce platform using PHP, Node.js, and Core.js, which slashed server latency by 20ms and enhanced cross-browser functionality, leading to increased customer engagement.

squaresigns

Developed a U.S.-based custom signage platform using React, Next.js, Tailwind CSS, and Node.js, integrating HubSpot, React Router, and Awin to accelerate page rendering by 40% and increase customer conversion through seamless user experience and automation.

mosaic

Mosaic is a financial planning and analysis platform that automates forecasting, budgeting, and reporting for collaborative, data-driven decision-making. Built with React, Next.js, Tailwind CSS, and Node.js, and integrated with HubSpot, it enhanced dashboard load times by 45% and significantly improved user engagement.

Mahlatini

Architected a financial planning and analysis platform using React, Next.js, Tailwind CSS, and Node.js, integrated with HubSpot to accelerate dashboard load times by 45% and elevate user engagement through seamless, data-driven workflows.

voloctea

Developed a large-scale airline booking system for Volotea using Angular.js, Zone.js, core-js, Swiper, jQuery, and AWS, with Hotjar analytics integration that increased booking transaction speed by 50% and enhanced scalability under peak traffic conditions.

renardbakery

Built a multilingual eCommerce platform for Renard Bakery using Laravel, PHP, Node.js, PostgreSQL, and Python, which boosted order processing efficiency by 60% and optimized real-time data handling for high-volume transactions.

Tranzzo

This site was built using React, Next.js, Tailwind CSS, and Node.js, providing a fast, secure, and scalable foundation for Tranzzo's global payment platform.

Delivered a responsive user experience, optimized server-side rendering, and seamless API integration to support real-time analytics and secure transaction processing across multiple regions.