
David Zbarcea

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Education

UNIVERSITY OF MARYLAND — Bachelor in Web Development and Digital Design
May 2023 - December 2024

UNIVERSITY OF EDINBURGH — Bachelor in International Business & Chinese
September 2019 - November 2022

- Best Presenter Award 2020 by Dean of Business School for excellent communication

Experience

KOOLISOO STUDIOS

Startup Co-Founder & Software Engineer

April 2023 - Present

- Designed a web application for e-sports fans to forecast tournament results, attracting 854 users in one week.
- Developed a high-performance, responsive single-page application using React and TypeScript.
- Created responsive wireframes and mockups for 7 web pages in Figma.
- Worked in a fast-moving startup environment, rapidly iterating on product features and infrastructure decisions.
- Implemented a REST API using Express.js with MongoDB integration, serving a React.js front-end.
- Handled promises and asynchronous programming in TypeScript using Axios and Fetch API.
- Performed manual testing and QA, reverse engineering and fixing bugs that were reported by users.
- Deployed new versions using GCP and Firebase, with GitlabCI for creating CI/CD pipelines.
- Implemented OAuth authentication (Discord OAuth, Supabase) to enhance platform security.
- Optimized web performance, improving load times and user engagement using lazy loading and caching techniques.

ROVER STORE, INC

Software Engineer Contractor

March 2024 - November 2024

- Updated and maintained a large legacy codebase for e-commerce inventory management in PHP, spanning 1,078 files and 168,376 lines of code created over 15 years.
- Migrated from deprecated Amazon MWS API to Selling Partner API using PHP.
- Identified and fixed a backdoor in the legacy dashboard web application, securing important pages and data.
- Reduced manual workload by 2 hours a day by automating drop shipping in TypeScript, connecting third-party Distributor and Marketplace APIs to internal MongoDB inventory database.
- Drove an increase in average monthly sales from \$60,000 to \$95,000 by visualizing inventory & sales data using Apache ECharts, improving marketing and sales insights.
- Developed a React.js dashboard for inventory management and shipping logistics workflows, incorporating real-time data updates from Walmart Marketplace API and Amazon SP-API.
- Met weekly with stakeholders to determine requirements for the dashboard and prioritize work.
- Implemented basic logging with Google Cloud Monitoring to improve system reliability.

Projects

HABIT BUILDING APP | TypeScript, React, Google Cloud Platform

- Implemented responsive UI using React and TypeScript.
- Conducted user testing, integrating feedback into further iterations of the project.

Skills

Languages: TypeScript, JavaScript, Java, Python, PHP, HTML/CSS, SQL

Frameworks & Libraries: React, Next.js, Express, TailwindCSS, Node.js, Svelte

Tools: Google Cloud Platform, Vercel, ChatGPT, Git, JIRA, JetBrains IDEs, Figma, Adobe Creative Suite

Other: Proficient in Mandarin, Romanian