

MATTHEW DUROCHER

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EXPERIENCE

Robert Bosch

Associate Software Engineer

July 2023 - present

Farmington Hills, MI

- Redesigned and rebuilt a fleet management dashboard using React, TypeScript, HTML, and CSS that allows users to more intuitively track GPS locations and various sensor measurements for trailers, resulting in a 75% decrease in clicks to view the desired information
- Led a migration of a legacy React web application to React Native to allow for separate fleet management software to be used on iOS and Android devices, improving customer experience
- Collaborated with the backend, legal, and management teams to ensure that user interfaces were able to efficiently pull from multiple APIs, the user had proper cookie management capabilities, and that the software fit the requested requirements

Robert Bosch

Software Engineer Intern

Jan 2023 - June 2023

Farmington Hills, MI

- Gathered requirements, designed wireframes and prototypes, and developed both frontend and backend MVPs for fleet management software that handles vehicle tracking, PDF generation, and a variety of other metrics
- Provided AWS cost estimates for establishing the backend and database of a fleet management application in the cloud
- Completed market research on fleet management software to identify where Bosch could develop unique selling points and stay competitive
- Explored possibilities of how Bosch could incorporate a wide range of artificial intelligence products and capabilities, potentially offering over a 50% decrease in marketing costs

PROJECTS

Money Navigator App

- Helps users set financial goals, such as paying off a loan, saving for retirement, etc., and then breaks them down into smaller milestones for the user to reach incrementally based on their income, savings rate, etc.
- Teaches users financial terminology relevant to each milestone, to make the information practical and not overwhelming
- Utilized React Native and TypeScript with Expo Go for the frontend, Node.js with Express.js for the backend, and MongoDB for the database

EDUCATION

University of Michigan

Bachelor of Science in Computer Science and Economics

Dec 2022

Ann Arbor, MI

Relevant Coursework: Web Systems, Computer Security, User Interface Development, Machine Learning, Software Engineering, Extended Reality and Society, Data Structures and Algorithms, Game Theory, Econometrics

SKILLS

Languages/Frameworks

JavaScript, TypeScript, HTML, CSS, React, React Native, Node.js, Express.js, Python, Flask, Jinja, SQL, MongoDB, C, C++

Libraries

Redux, Redux Toolkit, RTK Query, React Router, PrimeReact, Leaflet, i18next, Jest, React Testing Library, jQuery

Miscellaneous

Azure DevOps, Expo Go, npm, Vite, Git, Figma, OAuth 2.0, Agile, Unreal, Unity, AWS Certified Cloud Practitioner, Excel, Jira, LaTeX, Shell scripting