

MATTHEW DUROCHER

+1(231)649-2655 ◇ Farmington Hills, MI

durocma@umich.edu ◇ [linkedin.com/in/matthew-durocher/](https://www.linkedin.com/in/matthew-durocher/) ◇ durocma05.github.io/personal-website/

EXPERIENCE

Associate Software Engineer

Robert Bosch

July 2023 - present

Farmington Hills, MI

- Redesigned and re-implemented a fleet management dashboard that allows users to intuitively track GPS locations and various sensor measurements for trailers in a variety of languages
- Led a migration of a legacy React codebase to React Native to allow for a separate fleet management software to be used on iOS and Android devices
- Collaborated with the back-end, legal, and management teams to ensure user interfaces were able to efficiently pull from multiple APIs, give the end user proper cookie management capabilities, and fit the proper requested requirements

Software Engineer Intern

Robert Bosch

Jan 2023 - June 2023

Farmington Hills, MI

- Gathered requirements, designed wireframes and prototypes, and developed both front-end and back-end MVPs for fleet management software that handled vehicle tracking, PDF generation, and a variety of other metrics
- Provided AWS cost estimates for migrating the back-end of the fleet management dashboard to 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 into its fleet management solutions

PROJECTS

Money Navigator App - Developing a smartphone app to help users set financial goals (such as paying off a loan, saving for retirement, etc.) and then breaking down these goals into smaller milestones to reach consistently and incrementally based on their income, savings rate, etc. The app also teaches users financial terminology relevant to their current goals. Utilized React Native w/ Expo Go for the front-end, Node w/ Express for the back-end, and MongoDB for the database.

EDUCATION

Bachelor of Science (Economics & Computer Science), University of Michigan

Dec 2022

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

TECHNICAL SKILLS

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| 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 (Cloud Practitioner certified), Excel, Jira, LaTeX, Shell scripting |

ABOUT ME

- Limited working proficiency in German
- Hobbies include Jiu-jitsu, Muay Thai, cooking/trying new foods, traveling, hiking, and reading