Matthew Anderson

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EXPERIENCE

Software Engineer Intern — Grand Rapids, MI
Dematic — *July 2024 - Present*

- Designed and implemented custom UI screens based on client requirements using Angular, HTML, and CSS, improving workflow efficiency and reducing task completion time by 30%
- Built and maintained secure API endpoints and optimized database queries, increasing warehouse inventory accuracy by 25% and facilitating hundreds of daily transactions across multiple systems
- Actively engaged in Agile sprints, collaborating with clients, product teams, and developers to iteratively refine system architecture, enhance usability, and resolve 50+ issues, cutting customer-facing bugs by 40%

Teaching Assistant (Computer Architecture and Assembly Language) — Remote
Oregon State University — *September 2023 – August 2024*

- Clarified difficult concepts in computer architecture and x86 Assembly Language to over 100 students weekly during office hours, fostering improved understanding and academic success
- Delivered detailed evaluations and feedback for 180 student programs written in x86 Assembly Language, contributing to student growth and deeper comprehension of low-level programming principles

EDUCATION

Oregon State University — Corvallis, OR
Bachelor of Science in Computer Science (GPA: 4.0) — *June 2025*

University of Michigan — Ann Arbor, MI
Bachelor of Arts in English with Honors (GPA: 3.90) — *May 2019*

PROJECTS

My First Shell | *C* — https://github.com/mjande/my-first-shell

- Developed a custom shell program that emulates essential functions of Unix-like shells, achieving smooth command execution and providing an engaging user experience
- Implemented features such as input/output redirection and piping, enabling users to execute complex command sequences seamlessly
- Conducted rigorous manual testing and debugging to ensure reliability and performance, leading to a user-friendly interface and robust shell behavior

Soul Plane | *React, Express, MySQL* — github.com/mjande/soul-plane

- Created and optimized a comprehensive MySQL database schema, executing over 30 complex SQL queries to streamline user interactions and achieve enhanced data retrieval speed for better application performance
- Engineered 15 API endpoints to facilitate seamless interactions between the backend and front end, enhancing data flow efficiency which resulted in achieving a response time of under 200 milliseconds for user requests
- Coordinated with project partner using GitHub for repository hosting, overseeing version control practices that decreased merge conflicts by 30%, leading to more efficient project timelines and smoother integration processes within the team

ClassCircles | *React, Express, MongoDB* — github.com/mjande/ClassCircles

- Led the development of an innovative full-stack web application designed to connect more than 50 unique campus organizations with students at OSU's Fall 2023 Hackathon, promoting active participation within diverse communities
- Designed responsive and stateful components utilizing React and Material UI, enhancing user interactions which led to a 40% increase in positive feedback from beta testers regarding overall application usability

TECHNICAL SKILLS

Languages: JavaScript (TypeScript), Go, Python, C
Frameworks and Databases: React, Angular, Node.js (Express), MySQL, MS SQL Server
Developer Tools: Git, GitHub, Visual Studio Code, MS SQL Management Studio