Matthew Anderson

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EDUCATION

Oregon State University   Corvallis, OR
Bachelor of Science in Computer Science (GPA: 4.0)   *April 2023 – June 2025*
Relevant Coursework *Data Structures, Web Development, Introduction to Databases, Analysis of Algorithms,*
Software Development Lifecycle II, Operating Systems I, Parallel Programming

University of Michigan   Ann Arbor, MI
Bachelor of Arts in English with Honors   *September 2015 – May 2019*

EXPERIENCE

Software Engineer Intern   Grand Rapids, MI
Dematic   *July 2024 - Present*
- Collaborated with cross-functional teams to design and implement a full-stack user interface for a supply chain automation tool, leading to quicker task completion times by an average of 30 minutes per shift
- Played a key role in upgrading and customizing client systems by transitioning features from a legacy product version to the latest technology stack, resulting in a 25% increase in customer satisfaction
- Actively contributed to cross-functional collaboration in Agile workflows to translate client requirements into technical solutions, aligning with business goals and accelerating project delivery by 20%

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

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