Joshua Thomas

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Education

Michigan State University — **Expected April 2026**
Bachelor of Science in Computer Science, Minor in Business — *East Lansing, MI*
GPA: 3.38/4.00

Leinweber Software Scholarship
Merit-based scholarship awarded to students interested in the Michigan software industry.

Experience

Software Engineer Intern — **May 2024 – August 2024**
Gordon Food Service — *Grand Rapids, MI*
- Built a frontend application with SAPUI5 to integrate with an OData V3 service for improved user interaction
- Developed a background process using ABAP to streamline order management for Supply Chain Specialists
- Conducted code reviews, implemented features, and resolved bugs using ABAP programming and SAP Middleware
- Created and optimized Core Data Services (CDS) views, improving S4 HANA SQL database performance
- Handled production code and middleware implementations across S4 and MDG systems, utilizing Jira and ServiceNow for task tracking

Web Developer — **January 2024 – April 2024**
ASMSU — *East Lansing, MI*
- Utilized WordPress for development, maintenance, and extended functionality of the ASMSU website
- Used HTML/CSS to change and implement new design changes and updates
- Led a cost-saving initiative to streamline plugin usage, reducing overhead by identifying and eliminating redundant plugins while maintaining core functionality
- Proficiently managed IT operations utilizing a ticketing system to track and resolve technical issues

Software Developer Intern — **October 2023 – December 2023**
Mykamanda LLC — *Remote*
- Developed the backend of a Legal CRM application with a team, utilizing Node.js, Express.js, and MongoDB.
- Designed and developed multiple RESTful API endpoints to facilitate secure management and retrieval of client legal information leveraging Express.js to ensure proper routing and response handling
- Created Mongoose Schemas for structuring and storing client data in MongoDB, ensuring proper structure and reliable management of client information
- Utilized Postman for conducting API testing, and actively participated in weekly standup meetings

Projects

Member/Project Management System | *React, Javascript, FastAPI, Python, Firebase* | 🔗 Demo Deployed Site
- Developed a visually appealing and responsive React-based dashboard for member and project management, featuring real-time data synchronization with Firebase for a seamless user experience
- Built secure RESTful endpoints using FastAPI for efficient member and project CRUD operations

Multi-threaded Purchase Order System | *C++, POSIX*
- Developed a high-performance, concurrent system to process customer orders and manage inventory in real-time using producer-consumer threads
- Ensured efficient, thread-safe communication with a bounded buffer, delivering accurate logging and inventory updates

Parking Lot Management System | *Python, OpenCV, NumPy, Pickle*
- Developed a real-time parking space detection system using OpenCV which chooses available spaces
- Utilized image processing and color recognition techniques to provide precise parking space availability.

Technical Skills

Languages: Python, Java, C/C++, HTML/CSS, Javascript, ABAP, SQL
Developer Tools: VS Code, Eclipse, Vim/Neovim, Pycharm, Postman, Jira, ServiceNow, SAP PI/PO
Technologies/Frameworks: React, Express.js, FastAPI, Firebase, MongoDB, Git/GitHub, WordPress, SAP, S4 HANA

Extracurricular

Imagine Software Club — **January 2024 – Present**
Software Developer — *Michigan State University*
- Currently developing an app called SideQuest that engages users in fun, interactive quests, around their specific location
- Collaborating in a team of five, utilizing a tech stack including React Native, TypeScript, Django, and PostgreSQL