Camden Wierengo

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EDUCATION

Grand Valley State University — Allendale, MI
Bachelor of Science - Computer Science; Masters in Artificial Intelligence — *Aug. 2024 – May 2028*
- **Relevant Coursework:** Object-Oriented Programming, Web Development, Database Systems, Software Engineering,, Discrete Mathematics, Calculus

Michigan State University — East Lansing, MI
Web Development Certification — *Aug. 2023 – May 2024*
- **Relevant Coursework:** Javascript, React, Node.js, MongoDB

EXPERIENCE

Computer Science Club – Active Member — Grand Valley State University
Collaborated with peers in weekly technical challenges, and peer-led software engineering projects. — *Aug. 2024 – Present*
- Participated in meetings focused on professional development, networking, and collaborative learning opportunities.
- Engaged in discussions about upcoming events, internships, and career pathways in computer science
- Worked on small DSA and coding challenges with peers to improve problem-solving skills

PROJECTS

Motive (Hack Dearborn – University of Michigan) *React, Flask, Supabase, Tailwind CSS, TypeScript, DaisyUI*
- Architected a microservices-based backend using Flask to handle real-time data retrieval and processing from Google Maps API, enhancing search speed by 30%.
- Implemented advanced geolocation algorithms to provide accurate and context-aware recommendations, allowing users to explore nearby attractions with 95% location accuracy.
- Developed chatbot logic using OpenAI API, designing conversation flows to suggest personalized travel itineraries while optimizing budget and group size.
- Engineered a full-stack application integrating React and TypeScript frontend with Flask backend and Supabase for real-time database management.

PostWorkout *Angular, Express, Supabase, Tailwind CSS, TypeScript*
- Designed and implemented data models using Supabase to efficiently store and retrieve workout logs, reducing query execution time by 50%.
- Utilized Chart.js to visualize user progress with dynamic graphs, enhancing user engagement by 40%.
- Solved complex state management issues in Angular by leveraging RxJS observables, ensuring seamless user interactions and data consistency.
- Enhanced user experience with Toastify for notifications, maintaining consistent theme styling.

Go Microservices Health Monitor *Go, Docker, REST APIs*
- Built a distributed health monitoring system with Go microservices to track uptime, latency, and error rates across services.
- Implemented REST endpoints and middleware for service registration, periodic heartbeat checks, and alerting.
- Containerized services with Docker for scalable deployment and tested fault-tolerance under simulated load.

AI-Powered Note Taker *React, Express, Supabase, OpenAI*
- Developed a full-stack journaling app with an AI copilot that assists in summarization, reflection, and spaced repetition.
- Integrated Supabase for authentication and persistent note storage, with Express backend handling API orchestration.
- Implemented intelligent search and tagging using OpenAI embeddings to allow natural language retrieval of past notes.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, SQL (PostgreSQL), HTML/CSS
Frameworks/Libraries: React, Angular, Node.js, Express, Redux, Firebase, Supabase, Tailwind CSS, DaisyUI
Tools/APIs: Git, Docker, Google Maps API, OpenAI API, Chart.js, BallDontLie API, VS Code, Google Cloud
Concepts: Object-Oriented Programming (OOP), RESTful API Design