

Camden Wierengo

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EDUCATION

Grand Valley State University

Bachelor of Science - Computer Science Masters in Artificial Intelligence

Allendale, MI

Aug. 2024 – May 2028

PROJECTS

Motive (Hack Dearborn Univeristy 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*

June 2024 – Present

- 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.

Techblog | *Express handlebars HTML Bootstrap CSS JavaScript JSON Web Tokens (JWT)* April 2023 – May 2023

- Developed a secure blogging platform with Express and JWT for authentication, protecting user data with role-based access control.
- Overcame challenges of cross-site scripting (XSS) by implementing content security policies and input sanitization.
- Implemented JWT-based authentication for secure user sessions and data protection

CrypTalk | *React, Redux, Tailwind CSS PostgreSQL*

May 2023 – June 2023

- Integrated Crypto API and News API with caching mechanisms, reducing data load times by 70%
- Utilized Chart.js for advanced data visualization, allowing users to analyze market trends with historical comparisons.
- Handled API rate-limiting challenges by implementing retry logic and request throttling, ensuring reliable data updates
- Developed a real-time cryptocurrency tracking platform leveraging React and Redux for state management

YouTube Clone | *React Firebase Docker Google Cloud CSS Typescript*

October 2024 – Present

- Implemented real-time commenting and live video statistics tracking using Firebase Firestore with data synchronization.
- Overcame challenges in media storage and retrieval by leveraging Google Cloud Storage and CDN, optimizing video load times by 45%
- Automated CI/CD deployment using Docker containers and Google Cloud, ensuring zero-downtime updates
- Utilized Firebase Auth for secure user authentication and authorization

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, SQL (Postgres), HTML/CSS

Frameworks, Libraries: React, Angular, Node.js, Express, Redux, Firebase, Supabase, Tailwind CSS, DaisyUI

APIs, Tools: Google Maps API, OpenAI API, Crypto API, News API, Docker, Git, GitHub, VS Code, Google Cloud

Methodologies: Object-Oriented Programming (OOP), RESTful API Design, Agile Development