

David Williams

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EDUCATION

Eastern Michigan University

Bachelor of Science in Computer Science — GPA: 4.0

Ypsilanti, MI

Jan. 2024 – Apr. 2025

Schoolcraft College

Associate's in Programming — GPA: 3.9+

Livonia, MI

Jan. 2023 – Dec. 2023

TECHNICAL SKILLS

Languages & Runtimes: Java, JavaScript, Python, HTML/CSS, Node.js

Frameworks & Developer Tools: React, Next.js, Tailwind, Flask, Electron, Git, GitHub

Databases & Cloud: AWS, Relational Databases

PROJECTS

Portfolio Site | *Javascript, HTML/CSS*

- Developed a comprehensive portfolio website showcasing my resume, project details, and contact information.
- Designed and built the site using vanilla HTML, CSS, and JavaScript to ensure full control over functionality and aesthetics.
- Leveraged GitHub for version control, project management, and hosting.
- Implemented responsive design techniques, optimizing the site for seamless usability across various screen sizes and devices.

AI-Powered Shopping Recommendations | *Flask/Python, Javascript, HTML/CSS*

- Led the development of a web application using Flask to provide personalized purchase recommendations based on market basket analysis, with full responsibility for the backend implementation.
- Implemented data preprocessing techniques, including one-hot encoding and data aggregation, to prepare a grocery dataset for analysis.
- Utilized the Apriori algorithm and association rule mining to generate insights allowing us to improve recommendation accuracy based on user inputs.
- Modified and enhanced dataset in Excel using scripts, implementing a tagging system to test and evaluate potential improvements in data quality.

Swipe Based File Manager | *React, Electron, Node.js, Express, Mocha*

- Led the development of a cross-platform file management application, featuring a swipe based organization system, leveraging React and Electron for the frontend and Node.js/Express for the backend.
- Designed and maintained an efficient file management system without a relational database, relying on local file paths and in-memory data structures to store files pending deletion.
- Automated deployment using GitHub Actions, ensuring continuous integration and streamlined packaging for consistent updates across environments.
- Integrated Mocha for testing, enabling flexible, scalable unit tests to ensure the stability and performance of both frontend and backend components.

EXPERIENCE

AI Model Trainer

Oct. 2024 – Current

Outlier AI

- Implemented manual AI model training in Java, focusing on error detection and anomaly identification.
- Collaborated with data scientists, adhering to detailed documentation, with the goal of identifying, reporting, and resolving issues in LLM-generated code to enhance model accuracy and performance in real-world applications.
- Contributed to peer reviews, ensuring high standards of accuracy and quality in training data.

Server/Bartender

Apr. 2021 – Oct. 2024

Blackrock Bar & Grill

Woodhaven, MI

- Developed strong communication and interpersonal skills by effectively interacting with customers and coworkers, enhancing teamwork and collaboration in a fast-paced environment.