

COLLIN BRENNAN

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EDUCATION

Grand Valley State University, Allendale, MI Expected Graduation May, 2027
MS in Computer Science (Incoming, Fall 2026)

Western Governors University, Salt Lake City, UT Aug 2024
Awards: Excellence in Legal Issues in Cybersecurity | Communicating with Others

WORK EXPERIENCE

Blue Nucleus ACI, *Software Developer*, Grand Rapids, MI Aug 2025 - Present

- Developed a **Vue.js** web application integrating **Firebase** Authentication and Cloud **Firestore** for secure, scalable data storage.
- Implemented **client-side caching** through the database layer, reducing redundant model executions and cutting processing time by **95%**.
- Rebuilt frontend architecture and optimized queries, improving response times by **30%**.
- Engineered a **Python backend** integrating multiple **PyTorch models** for real-time disease likelihood analysis and visualization with **Leaflet API**.
- Partnered with clients to align technical capabilities, features, and costs into feasible, performance-driven solutions.

PROJECTS

Refract - AI Habit Reflection App

Vue.js | Firebase | OpenAI API

- Built a habit tracking web app featuring a GitHub-style relapse visualization grid and secure user authentication.
- Integrated OpenAI API to analyze relapse entries and deliver personalized insights and prevention strategies.
- Optimized caching and data flow to enable real-time updates and a seamless user experience.

CineMatch - Movie Discovery Platform

Vue.js | Python | Firebase | TMDb API

- Developed a movie discovery app allowing users to filter films by genre, release year, and streaming platform.
- Implemented user authentication, rankings, and responsive UI with Tailwind CSS for fast, friendly browsing.

SKILLS AND INTERESTS

- Languages:** Python, JavaScript, Dart, HTML
- Frameworks & Libraries:** Vue 3, Nuxt 3, Tailwind CSS, Flutter
- Tools & Platforms:** Git, Firebase, Jira, AWS
- Concepts & Practices:** Data Structures, Algorithms, Agile, Scrum, Software Development Lifecycle(SDLC)