Collin Brennan

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EDUCATION

Grand Valley State University – Allendale, MI
BS - Computer Science | GPA: 3.95 | Expected Graduation: May 2027

Western Governors University – Salt Lake City, UT
BS - Cybersecurity and Information Assurance | Graduated: Aug 2024
Excellence Awards: Legal Issues in Cybersecurity | Communicating with Others

WORK EXPERIENCE

Edge Forestry AI – Grand Rapids, MI
Software Engineer | Aug 2025 – Present

- Built and deployed **Vue** web application using **AWS CI/CD** pipeline and **AWS Aurora database**.
- Engineered Raspberry Pi device with **Python** backend (USB monitoring, automated file extraction) and **Flutter** UI, enabling offline disease detection and reducing field commute times by **50%**.
- Collaborated with clients to align features, costs, and timelines, ensuring successful project outcomes.

Blue Nucleus ACI – Grand Rapids, MI
Software Developer | May 2025 – Aug 2025

- Eliminated redundant model executions through **Firebase** caching, cutting processing time by **95%**.
- Rebuilt [full-stack web app](#) (Nuxt 3/Vue frontend, **Python** backend, **Firebase** auth/storage), improving response times by **30%**.
- Integrated **TensorFlow** model to analyze tree health, generating GeoJSON & CSV outputs for AI-driven results displayed on Leaflet **API** maps.
- Designed intuitive UI components for disease likelihood analysis, improving user satisfaction with complex AI outputs.

PROJECTS

Cinematch | Web App | Vue3 | Go | SQL
Developed a full-stack movie recommendation app personalized from users' Letterboxd watch history/ ratings and categorized by chosen streaming services.

College Football Match Predictor | Website | Vue3 | Python | SQL
Developed a full-stack college football game predictor for hypothetical matchups based on varying weighted statistics determined by user preference.

SKILLS

Languages: Python, Go, Dart, JavaScript, SQL

Frameworks & Libraries: Vue 3, Nuxt 3, Tailwind CSS, Flutter

Tools & Platforms: Git, Firebase, Jira, AWS, AWS Aurora

Concepts & Practices: Data Structures & Algorithms, Agile, Scrum, Software Development Lifecycle