

# BRIAN JAMES

## Full-Stack Developer

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### SUMMARY

Full-stack developer with experience delivering end-to-end, user-focused applications across the stack with proficiency in Agile methodologies, software quality assurance, and test planning through a combination of engineering expertise and 8 years as a touring professional operating high-stakes systems to produce reliable, effective solutions in collaborative and independent environments.

### EDUCATION & CERTIFICATIONS

#### Oregon State University

December 2025

B.S. Computer Science • GPA: 3.8

- **Relevant Coursework** - Data Structures & Algorithms, Applied AI and Deep Learning, Applied Machine Learning, Applied Data Science, Computer Networks, Operating Systems, Cloud Application Development, Mobile Software Dev, Open Source Software.
- **AWS Certified Solutions Architect Associate Certification SAA-C03** *(In-Progress)*

### EXPERIENCE

#### Full-Stack Developer | [LINK](#)

February 2025 - Present

*Apotheca*

*Remote*

- Spearheaded the SkinPro desktop application in collaboration with the business owner, managing 300+ client records and 2,000+ appointments, saving 1,000+ hours/year of manual work and \$3,000+ in software costs.
- Integrated a QR-based mobile-to-desktop photo upload system using Flask, cutting image management time by 90%.
- Constructed a dynamic PDF prescription generator with ReportLab, turning a handwritten process into an automated workflow.
- Built modern, responsive UIs with CTkinter and a local SQLite database with weekly backups, saving \$500+ per year on cloud costs.
- Tech Stack: **Python, SQLite, Flask, CTkinter, ReportLab, PIL**

#### Stage Automation Engineer & Guitarist | [VIDEO](#)

December 2021 - January 2024

*Entheos*

*Global*

- Independently programmed a live sound & lighting system (70+ fixtures) in Python and Showbuddy, synchronizing lights with instruments and vocals for 60,000+ fans—reducing tour crew costs by \$5,000+ while elevating show quality and merch sales.
- Coordinated nightly with venue lighting directors and stage hands to ensure smooth, flawless, time-critical execution.
- Tech Stack: **Python, Logic Pro X, Showbuddy**

### PROJECTS

#### AI Agent | [LINK](#)

May 2025 - June 2025

- Created an AI finance agent within Discord using the OpenAI API, enabling natural-language expense tracking and visualization.
- Produced 35 analytics commands that display spending breakdowns, projections, and no-spend streaks with multi-role workflows.
- Configured a lightweight CI/CD pipeline utilizing GitHub and Railway to automate builds, tests, and deployments for faster iteration.
- Tech stack: **Python, Discord.py, OpenAI API, Google Sheets API, Railway**

#### Serverless Portfolio Website | [LINK](#)

June 2025 - August 2025

- Developed a serverless portfolio with AWS (S3, CloudFront, Lambda, SES), scoring 96/100 mobile/desktop on PageSpeed Insights.
- Designed a responsive UI using React, JavaScript, and custom CSS, emphasizing clarity, minimalism, and visual consistency.
- Added reCAPTCHA and form validation to block spam and ensure secure, reliable interaction across devices.
- Tech stack: **React, Javascript, CSS, HTML, AWS (S3, CloudFront, Lambda, SES)**

#### NES Cycle-Accurate Emulator | [LINK](#)

September 2024 - June 2025

- Engineered a cycle-accurate NES emulator's APU and CPU, leading a refactor resolving 25+ bugs on Linux, macOS, and Windows.
- Optimized a 40+ unit testing suite for instruction accuracy, memory access, and interrupts, achieving 95%+ coverage.
- Led a 5-person team via Trello and Discord, driving progress tracking, task delegation, and coordination in an Agile environment.
- Tech stack: **C++, SDL2, Dear ImGui, Git, Trello**

### SKILLS

- **Languages & Databases:** Python • C++ • JavaScript • TypeScript (familiar) • SQL • MongoDB
- **Frameworks & Web:** React • Node.js • Express.js • Flask • HTML/CSS
- **Cloud & DevOps:** AWS (S3, Lambda, SES, CloudFront) • Railway • Git • CI/CD
- **Data Science & ML:** Pandas • NumPy • Matplotlib • Scikit-Learn • Seaborn • Power BI

### ADDITIONAL

**Open Source Contributor – Microsoft PowerToys:** Enhanced UI clarity and discoverability in CommandPalette using XAML and .NET; merged into a project with 120k+ GitHub stars. ([view PR](#))

**Touring Musician/Composer:** Played lead guitar for internationally touring bands signed to major labels and coordinated technical production and logistics across 20+ countries while writing multiple full length albums.