Brian James

Portfolio | ♥ Sacramento, CA | In LinkedIn | Maintenanto | Distribution | Indicate | Distribution | Indicate | Indicate | Distribution | Indicate | Indic

Summary: Full-stack software engineer with hands-on experience delivering performant, user-focused apps across frontend, backend, and the cloud. Blends technical depth with years of touring experience coordinating high-stakes systems under pressure. I take full ownership of delivering clean, effective solutions—balancing independent problem solving with consistent, team-oriented collaboration.

Skills_

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

Education

B.S Computer Science – Oregon State University

• Relevant Coursework - Applied AI and Deep Learning, Applied Machine Learning, Applied Data Science, Data Structures & Algorithms, Computer Networks, Operating Systems, Cloud Application Development, Mobile Software Dev, Open Source Software.

AWS Certified Solutions Architect Associate Certification SAA-C03 (In-Progress)

Projects

BookieBot

Autonomous Al Finance Agent 7

Solo Project

Expected Graduation: Dec 2025 | GPA: 3.8

05/2025 - 06/2025

- Designed an autonomous AI finance agent for Discord, helping users visualize and manage monthly expenses via natural-language queries—reducing the need for manual budgeting tools.
- Developed 30+ intents for analytics (spending breakdowns, projections, no-spend streaks), with multi-user, role-based workflows.
- Tech stack: Python, Discord.py, OpenAI API, Google Sheets API, Railway, AsyncIO, Matplotlib

SkinPro

Full-Stack Desktop Application >

Contractual

02/2025 - 04/2025

- Designed and developed a full-stack desktop application for a day spa, managing 300+ client records and 2,000+ appointments, saving 1,000+ hours/year of manual work and \$3,000+ in software costs.
- Collaborated with the spa owner to define requirements, prioritize features, and refine the app around daily business operations.
- Integrated a QR-based mobile photo upload system and dynamic PDF prescription generator, reducing photo management time by 90% and supporting customizable skincare routines.
- Built modern, responsive UIs with Tkinter and a local SQLite database with weekly backups, saving \$500+ per year on cloud costs.
- Tech stack: Python, SQlite, Flask, CustomTkinter, ReportLab, PIL

Portfolio Website

Serverless Portfolio Website >

Solo Project

06/2025 - 07/2025

- Built my serverless portfolio website via AWS S3, CloudFront, Lambda & SES for fast delivery, secure forms, and email alerts.
- 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 reliable interaction across devices.
- Tech stack: React, Javascript, CSS, HTML, AWS, S3, CloudFront, AWS Lambda, SES

NES Emulator

Cvcle-Accurate Emulator >

5-Person Team

09/2024 - 06/2025

- Engineered a cycle-accurate NES emulator, particularly the APU and CPU components, achieving authentic timing, >95% test coverage, and leading a full-scale system refactor resolving 25+ platform-specific bugs across Linux, macOS, and Windows.
- Optimized and validated 40+ unit tests for CPU instruction accuracy, memory access, and interrupts—achieving 95%+ coverage.
- Led development via Trello and Discord, enabling clear progress tracking, task delegation, and team coordination.
- Tech stack: C++, SDL2, Dear ImGUI

Additional Experience _

- Microsoft PowerToys (Open Source): Enhanced UI clarity and discoverability in CommandPalette using XAML and .NET tooling.
- Touring Musician/Stage Engineer: Played lead guitar in the band "Entheos" signed to Metal Blade Records. 12/2021 01/2024
 - Designed and programmed an automated live sound & lighting system (70+ fixtures) using Python and Showbuddy, creating 100+ custom lighting scenes synchronized to instruments and vocals, **reducing tour crew costs by \$5,000+.** (Video-Link)
 - o Independently engineered and programmed the automated lighting system, coordinating nightly with venue lighting directors and stage crews to ensure seamless integration and flawless execution under time-sensitive circumstances.
- Touring Musician/Composer: Played lead guitar in the band "Fallujah" signed to Nuclear Blast Records.