

# BRIAN JAMES

## Software Engineer

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## SUMMARY

Software engineer building data-intensive products, scalable APIs, and automation that improve performance and reliability. Strong in Python (FastAPI) and TypeScript/JavaScript (React/Next.js), delivering responsive web experiences and dependable backend services. Comfortable owning features end-to-end, collaborative, backed by 8 years operating high-stakes systems as a touring professional.

## EDUCATION

### Oregon State University

**B.S. Computer Science** • GPA: 3.8

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

## EXPERIENCE

### AI Associate Developer

**September 2025 - Present**

*Insurity* *Remote*

- Engineered an AI-powered Database Performance Agent with LangGraph and Azure OpenAI, orchestrating 12 tool intents across 34 databases and cutting manual DBA analysis time by 80%.
- Owned a full-stack web app that housed the performance agent, using Next.js/React and FastAPI to deliver real-time chat and server-side pagination across 894 tables and 2,175 stored procedures.
- Led a cookie migration across 170+ legacy ASP.NET/.NET files, achieving 51% faster page loads, 50% fewer HTTP requests, and eliminating 4 session-fixation vulnerabilities.
- Crafted Python indexing toolkits that improved high-traffic query performance 40–60% by surfacing 400–600 indexes.
- Tech Stack: **Python, TypeScript, JavaScript, SQL, SQLite, FastAPI, React, Next.js, C#, .NET, Tailwind CSS, Replit**

### Full-Stack Developer

**February 2025 - Present**

*Apotheca* *Contractual*

- Directed the SkinPro web application build with the business owner, managing 300+ client records and 2,000+ appointments and saving 1,000+ hours/year and \$3,000+ in software costs.
- Implemented QR-based mobile-to-web photo uploads with single-use tokens, cutting image management time by 90%.
- Constructed a dynamic PDF prescription generator that replaced handwritten workflows with automated, print-ready outputs.
- Developed a responsive Next.js UI over a local SQLite store with offline-friendly workflows, avoiding \$500+ per year in cloud costs.
- Tech Stack: **TypeScript, JavaScript, SQLite, Node.js, Next.js, React, Codex**

## PROJECTS

### MarketScope Leads Intelligence Platform

**Winter 2025 - Present**

- Established a geo-target ingestion pipeline that cleans 228,782 rows and links city data to the UI for lead insights.
- Optimized a keyword-intel pipeline that warms 50 keywords per run to surface niche markets for targeted outreach.
- Modeled spend estimates using CTR bands (0.8–9%) and CPC ranges to sharpen outreach pitches.
- Tech stack: **Python, TypeScript, PostgreSQL, Redis, FastAPI, SQLAlchemy, Celery, Docker, React, Tailwind CSS, GCP**

### AI Finance Agent

**May 2025 - June 2025**

- Orchestrated an AI-powered finance agent with OpenAI intent parsing for 35+ intents, enabling NLP expense tracking.
- Automated a GitHub Actions Codex autofix pipeline with tests and PRs, reviewable directly in Discord within 5 minutes.
- Authored a deterministic LLM test harness with 108 fixtures and 51 VCR cassettes to detect drift and stabilize intent parsing.
- Tech stack: **Python, OpenAI API, GitHub Actions, Railway, Codex, AsyncIO, Matplotlib, VCR.py**

### Serverless Portfolio Website

**June 2025 - August 2025**

- Architected a serverless React portfolio on AWS (S3, CloudFront, Lambda, SES) with a reCAPTCHA-gated contact flow, earning 96/100 PageSpeed on mobile and desktop.
- Accelerated performance by code-splitting 4 sections and lazy-loading 3 heavy libraries, reducing JS while keeping UX smooth.
- Added a reusable card and gallery system that renders 9 case studies with animated expand/collapse and fullscreen zoom.
- Tech stack: **JavaScript, HTML, CSS, React, AWS (S3, CloudFront, Lambda, SES), Framer Motion**

## SKILLS

- **Languages & Databases:** Python • TypeScript • JavaScript • C# • SQL • PostgreSQL • SQLite • Redis
- **Frameworks & Web:** Next.js • React • Node.js • FastAPI • .NET • Tailwind CSS • HTML • CSS
- **Cloud & DevOps:** AWS (S3, CloudFront, Lambda, SES) • GCP • Docker • GitHub Actions • Railway • Git
- **APIs & Tooling:** REST APIs • OpenAI API • SQLAlchemy • Celery • AsyncIO • VCR.py • Matplotlib • Codex

## 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.

**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.