

Conner Reavill

Backend Developer | Distributed Systems & API Design
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Professional Summary

Backend Developer building resilient distributed systems with Python, Node.js, and AWS serverless. Operates a production AI pipeline integrating OpenAI APIs with event-driven processing (Lambda/SQS) and optimized MongoDB queries. AWS Solutions Architect certified.

Technical Skills

Backend & Infrastructure: Python, Node.js, Java, Bash, AWS (Lambda, SQS, Secrets Manager), Docker; familiarity with Kubernetes concepts and container patterns, CI/CD, IaC (AWS SAM, Terraform), API Gateway

Distributed Systems: SQS (Message Queues, DLQs), Low-Latency API Endpoints, Asynchronous Job Processing, Resilience Engineering, Caching Strategies (Redis)

Databases & APIs: SQL, PostgreSQL, MongoDB, MySQL, Data Modeling, REST APIs, Database

Optimization Web Concepts: JavaScript/TypeScript, React.js, Next.js 14

AI/ML Integration: LLM APIs (OpenAI, Claude), Prompt Engineering, Retrieval-Augmented Workflows

Technical Projects

Social Spork: AI-Powered Recipe Platform | social-spork.com

- Designed event-driven system using AWS Lambda (Python) and SQS, decoupling processing stages for independent scaling and maintainability.
- Integrated AI/ML services (OpenAI Whisper/GPT-4o, Claude API) for automated content extraction and structured data transformation.
- Implemented resilient job processing via SQS and Dead-Letter Queues (DLQs), ensuring guaranteed delivery and data integrity.
- Designed MongoDB data models, indexes, and aggregation pipelines to support high-read workloads and low-latency API responses

Wave-Finder: ML-Powered Surf Forecasting Platform | thewavefinder.com

- Built RESTful API with API Gateway/Lambda handling authentication, data validation, and core business logic for the front-end application.
- Integrated with Aurora (MySQL-compatible) database, supporting structured relational data and transactional workloads.
- Utilized Infrastructure as Code (AWS SAM/Terraform) and automated CI/CD via GitHub Actions for performant, reproducible code deployments.

Professional Experience

AI Data Specialist | DataAnnotation.tech | March 2024 – Present

Trained and refined large-scale language models by curating datasets and evaluating system outputs for accuracy and coherence.

Front End Developer | BadabingMP | 2022 – 2023

Managed full development lifecycle of a responsive web application, including backend integration and API consumption. Implemented CI/CD pipeline using GitHub Actions to automate testing and deployment, accelerating feature delivery.

Systems Engineering Intern | Visa Inc. | Summer 2022

Optimized mission-critical mainframe (z/OS) systems processing millions of daily transactions, ensuring system stability. Collaborated with senior engineers on high-availability design principles for mission-critical financial systems.

Education & Certifications

California Polytechnic State University | Bachelor of Science in Software Engineering | May 2024
AWS Certified Solutions Architect – Associate | November 2025