

Brian Seo

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EDUCATION

University of California, Irvine
Major in Software Engineering

Irvine, CA
June 2026

EXPERIENCE

Intertru: Backend/AI Engineer

Jan 2026 - Present
Newport Beach, CA

- Improved interview session analysis accuracy by 2.3x by developing in-session retrieval architecture to dynamically inject context from document directories.
- Cut AWS operational cost by 20% by refactoring background-threaded workloads into async Lambda invocations to avoid idle EC2 runtime charges.
- Reduced synchronous sprint review overhead by 2+ hours per cycle by engineering an internal async feedback feature for the AI-generated interview platform.
- Hardened core AI infrastructure against prompt injection and runtime failures by implementing input sanitization layers and strict structured JSON output enforcement.

PROJECTS

POS

Go | Shell | Kotlin | Jetpack Compose | SQLite | Postgres

- Designed the persistence layer around offline-first SQLite for local operation with a PostgreSQL cloud-sync path.
- Implemented full order management with server-side price lookups and transactional multi-step writes.
- Established a sentinel-error pattern; mapping domain errors to correct HTTP status codes, with error normalization.

Decurb: Full-Stack Web Application

Java | HTML | CSS | JavaScript | MySQL | Docker | Kubernetes | AWS

- Designed and implemented RESTful microservices, containerized with Docker, and orchestrated deployment on AWS Kubernetes, enabling scalable, modular architecture.
- Reduced load latency by ~76% by optimizing XML processing and batching database writes.
- Optimized search bar with Levenshtein-based fuzzy matching and efficient database queries.
- Lowered deployment cost by 25% by switching from vertical scaling to horizontal pods scaling and YAML specification optimization without performance degradation.

Rent-Spiracy: Hackathon

Next.js | Node.js | Express.js | TypeScript | Python | Tailwind CSS | MongoDB

- Developed Rent-Spiracy, a real-time web application that detects rental scams using AI and database validation.
- Implemented multi-language support to make the platform accessible to international users
- Integrated Gemini API to perform scam analysis based on user-provided emails, phone numbers, and documents.
- Analyzed cost of tokenization, reduced overall budget by shifting from Gemini API to Jina AI API for fetching content.
- Designed and implemented backend services with Node.js and MongoDB to securely store and retrieve scam-related data.

TECHNICAL SKILLS

Programming Languages: C/C++, Python, Java, JavaScript, TypeScript

Frameworks & Libraries: React.js, Next.js, Express.js, Node.js, Tailwind CSS

Cloud & Infrastructure: AWS (Lambda, EKS), Docker, Kubernetes, Vercel, CI/CD (Jenkins)

Databases & Tools: PostgreSQL, MongoDB, Git, Postman, REST APIs, JWT