

Brian Seo

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Full-Stack Developer | Software Engineer

EDUCATION

University of California, Irvine

Bachelor of Science

Major in Software Engineering

Relevant Coursework: Data Structure Implementation and Analysis, Algorithm Design and Analysis, Database Management System, Software Testing & Quality Assurance, Concept in Programming, Computer Architecture & Organization, Interactive Software, Discrete Mathematics, Linear Algebra

Irvine, CA

Expected June 2026

TECHNICAL SKILLS

Coding Languages | C/C++, GoLang, Python, Java, JavaScript, Typescript, HTML, CSS, SQL

Technologies | Node.js, Next.js, React.js, Tailwind CSS, MySQL, PostgreSQL, Version Control, GoogleTest, Xcode, MongoDB, Supabase, Railway, API, Docker, Kubernetes, AWS, Vercel, Microservices, Unix/Linux

Other Skills | API Development, Dynamic Routing, Email Integration (Nodemailer), Twilio, Responsive Design

PROJECTS

Personal Website

Dec 2024 - Present

Next.js | React.js | JavaScript | HTML | Tailwind CSS | Vercel | Git

- Developed a **fully responsive portfolio website** using **Next.js 14** and **Tailwind CSS**, ensuring seamless layouts across all screen sizes.
- Implemented **dynamic routing, smooth scrolling, and fade-in animations** to enhance user experience.
- Managed smooth animated transitions period to ensure Light/Dark mode transit naturally
- Integrated RAG on interactive LLM; stored context in JS data arrays rather than a DB due to small volume of data; organized code across separate JS files.

Fabflix (Decurb): Full-Stack Movie Web Application

Mar 2025 - June 2025

Java | Servlets | HTML | CSS | JavaScript | MySQL | Docker | Kubernetes | AWS | Git | Microservices

- Designed and implemented RESTful microservices, containerized with Docker, and orchestrated deployment on AWS Kubernetes, enabling scalable, modular architecture.
- Manage the **scaling on pods and optimized specification of YAML** file to minimize the cost of deployment in AWS while maintaining the performance.
- Automated **data import** by parsing **XML files** and loading movies, stars, and genres into the database; optimized DOM-based parsing and batched PreparedStatements to **reduce load latency by ~26%**.
- Managed instance type to **ensure there is no packet loss during large amounts of processing data**.
- Integrated an **AI-powered chatbot** using **LLM model** to improve user experience of flexibility and accessibility in searching movies. Added intent based to ensure if the question is not relatable to the user, gives recommendation in searching.
- Built dynamic **AJAX-powered front-end** for **movie browsing, autocomplete, and interactive cart**; optimized search bar with **Levenshtein-based fuzzy matching** and **efficient database queries**.
- Managed full **project lifecycle: requirements gathering, system design, database schema, implementation, debugging, and production deployment** with **SSL and auto-scaling**.

Rent-Spiracy

Apr 2025

Hackathon team Project

Next.js | JavaScript | python | Tailwind CSS | HTML | Node.js | MongoDB | API | Vercel | Git

- 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.