

# Brian Seo

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Full-Stack Developer | Software Engineer

## EDUCATION

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### University of California, Irvine

Bachelor of Science

Major in Software Engineering

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

Irvine, CA

Expected June 2026

## TECHNICAL SKILLS

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

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

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

## PROJECTS

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### Personal Website

Dec 2024 - Present

Next.js | React.js | JavaScript | HTML | Tailwind CSS | Nodemailer | 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.
- Integrated **Nodemailer for email functionality**, allowing users to send messages directly from the site.

### 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**.
- Engineered secure login and registration (prepared statements, JWT), and built an employee/admin dashboard using stored procedures and metadata visualization.
- Integrated an **AI-powered chatbot** using **OpenAI API**, enabling users to **search movies**, get **personalized recommendations**, and interact with the **database** through **natural language queries**.
- Built dynamic **AJAX-powered front-end** for **movie browsing, autocomplete, and interactive cart**; optimized search with **Levenshtein-based fuzzy matching** and **efficient database queries**.
- Automated **data import** by parsing **XML files** and loading **movies, stars, and genres** into the database; ensured **robust error handling and reporting**.
- 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 Project

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

- Collaborated in a team to develop **Rent-Spiracy**, a real-time web application that detects rental scams using AI and database validation.
- Built a **fully responsive front-end** with Next.js 14 and Tailwind CSS, ensuring seamless user experience across mobile and desktop devices
- **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.
- Designed and implemented **backend services** with **Node.js** and **MongoDB** to securely store and retrieve scam-related data.
- Deployed the application on **Vercel** and managed version control with **Git** throughout the **48-hour hackathon**.