

Sean Rezaie

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EDUCATION

University of California, Berkeley

Berkeley, CA

Bachelor's in Computer Science, Minor in Data Science

May 2025

- **GPA:** 3.8
- **Coursework:** Data Structures, Algorithms, Computer Architecture, Data Science, Probability, Databases, Discrete Math, Algorithms for Computational Biology*, Machine Learning*, Linear Algebra, Organic Chemistry II & I, Physics

SKILLS

- **Languages:** Java, Python, JavaScript, Go, C/C++, SQL, TypeScript, R, HTML, CSS, Rust
- **Libraries:** Next.js, React, BeautifulSoup, Flask, NLTK, Scikit-Learn, NumPy, Pandas, Matplotlib, Pytest
- **AI/ML/LLM:** LangChain, HuggingFaceEmbeddings, GPT-4o, sklearn, TensorFlow, PyTorch
- **DevOps:** Git, GitHub, GitLab CI, Node, Vim, Shell, Linux, Docker, Kubernetes, Jira, YAML
- **Databases:** PostgreSQL, MySQL, SQLite, MongoDB, Supabase, Amazon Redshift, SQLAlchemy
- **Cloud:** AWS (ECR, S3, Lambda, EC2, RDS, CloudFront), GCP, Azure, Vercel, Terraform

PROFESSIONAL EXPERIENCE

Software Engineer

San Francisco, CA

BlackPrint Technologies – Startup leveraging AI to automate site selection

April 2024 – Present

- Maintained and enhanced map user interface for property visualization platform, collaborating with senior engineer to resolve 50+ bugs and implement 6 new features, improving the platform performance and user satisfaction by 30%
- Deployed an NLP model using AWS Lambda and ECR, which significantly reduced the average user query time by 70%
- Engineered a high-performance web scraping system for 300,000+ Mexican properties, leveraging AWS S3 and automated runs; this solution visualized market trends, enabled real-time property verification.
- Assessed mobile foot traffic data in 100,000+ datasets, providing insights into customer behavior and usage patterns that informed business decisions, leading to a 25% increase in customer engagement; deployed using Supabase

Full Stack Software Engineering Intern

San Diego, CA

Alpha Omega Group LLC

May 2024 – Aug 2024

- Developed a full-stack web application for automated employee Monthly Status Reports (MSRs) using Next.js, Python, and FastAPI; integrated LangChain and OpenAI for report consolidation, reducing a manager's manual effort by 80%
- Engineered a robust backend system with FastAPI and PostgreSQL, leveraging Docker and Kubernetes for containerization and orchestration; implemented GPT-4o using OpenAI integration for intelligent report generation
- Optimized application deployment and scalability using AWS services (ECR, Lambda, RDS) and Terraform; this cloud-native approach improved system reliability and reduced deployment time by 30%

Undergraduate Course Staff: Tutor, Data Science (Data C8)

Berkeley, CA

University of California, Berkeley CDSS

Jan 2024 – May 2024

- Produced educational data science content to 1800 students, which is UC Berkeley's largest undergraduate course
- Guided 20+ students toward a deeper understanding of foundational Data Science and Statistics through lectures
- Assisted 1000+ students during office hours enforcing concepts to students through visualizations and presentations

PROJECTS

Property Web Scraper Data Pipeline – Python, BeautifulSoup, Playwright

May 2024 – July 2024

- Engineered a high-performance web scraping system to extract data from 300,000+ property listings; leveraged concurrency to increase collection speed from 1,000 to 4,000 listings/hour
- Advised a scalable AWS-S3-based data pipeline with parquet compression; automated 6-hourly runs with a priority-based algorithm, cutting processing time from 8 to 4.5 hours per full scrape and enhancing real-time market analysis

Gitlet - Java

Sep 2023 – Nov 2023

- Created version-control system emulating Git with commit, merge, and branching functions, ensuring efficient code
- Designed efficient snapshot storage & history tracking, incorporating SHA-1 hashes for content ID and data integrity
- Developed a serialized persistence model for state retention, emphasizing thorough CLI argument validation