

# Sean Rezaie

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## EDUCATION

### University of California, Berkeley

Berkeley, CA

Bachelor's in Computer Science, Minor in Data Science | Completion of Pre-Med Requirements

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, Golang, C/C++, SQL, TypeScript, R, HTML, CSS, RISC-V
- **Libraries:** Next.js, React, Beautiful Soup, 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

- Deployed an NLP model using AWS Lambda and ECR, which significantly reduced the average user query time by 70%
- Created a map-based platform using Next.js to work with geospatial data, enabling efficient querying and visualization
- Engineered a web scraping system processing 300,000+ property datasets, automating data analysis to reduce manual effort by 80% and enabling real-time verification, boosting operational efficiency by 50%.
- Secured \$1M+ in funding and onboarded 50+ B2B clients in under 12 months, driving a 200% increase in platform adoption and establishing a scalable, revenue-generating business model.

### Full Stack Software Engineering Intern

San Diego, CA

Alpha Omega Group LLC

May 2023 – Aug 2023

- 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

### [Conversify](#) (Co-Founder) | Next.js, TypeScript, Supabase, React Native

June 2024

- Conversify is an AI-powered platform that enhances a user's conversation skills through realistic practice scenarios
- Engineered integration of Deepgram and Claude 3.5 Sonnet to create real-time conversational/interview simulations
- Grew user base to 1,200 sign ups, with 70 paid-active users in the first three months after the release of the MVP

### Property Web Scraper Data Pipeline | Python, Beautiful Soup, 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
- Migrated the entire data pipeline to the cloud using a Digital Ocean droplet (VM), automating pipeline execution with Cron jobs, enabling consistent and efficient real-time processing without manual intervention