Sean Rezaie

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EDUCATION

University of California, Berkeley   **Berkeley, CA**
B.A Computer Science, Minor in Data Science | Completion of Pre-Med Requirements   May 2025
- **GPA:** 3.80 / 4.00
- **Relevant Coursework:** Data Structures, Algorithms, Computer Architecture, Data Science, Probability, Databases, Discrete Math and Probability, Networking*, Computer Security*, Linear Algebra, Organic Chemistry II & I, Physics

EXPERIENCE

Software Engineering Intern   **Menlo Park, CA**
REscan   Dec 2024 – Present
- Developed and enhanced the user management portal, creating and deploying over 20 API endpoints with Amazon CDK (Python) for cloud infrastructure and React for the frontend, improving user management efficiency
- Improved portal performance and features, increasing operational speed by 40% using React and AWS cloud technologies, while maintaining 100% test coverage and ensuring clear, well-documented code.
- Developed and maintained scalable data pipelines and cloud systems, utilizing AWS services such as Lambda, S3, and Cognito to streamline data processing and enable secure user login and authentication.

Software Engineer   **San Francisco, CA**
BlackPrint Technologies   April 2024 – Jan 2025
- 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%.

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

Undergraduate Course Staff: Tutor, Data Science (Data C8)   **Berkeley, CA**
University of California, Berkeley CDSS   Jan 2024 – May 2024
- Led weekly mini lectures and discussions to guide 20+ students in foundational data science and statistics concepts, fostering deeper understanding through visualizations and presentations.
- Assisted 1,000+ students during office hours, providing personalized support and clarifying complex topics.

PERSONAL PROJECTS

Conversify (Co-Founder) | Next.js, TypeScript, Supabase, React Native   June 2024 – Present
- 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 5,000 sign ups, with 150 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
- 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 an EC2 Instance (VM), automating pipeline execution with Cron jobs, enabling consistent and efficient real-time processing without manual intervention.

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
- **Databases:** PostgreSQL, MySQL, SQLite, MongoDB, Supabase, Amazon Redshift, SQLAlchemy