Sean Rezaie

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EDUCATION

University of California, Berkeley **Berkeley, CA**
B.A Computer Science | Minor Data Science May 2025

- *GPA: 3.8*
- Relevant Coursework: Data Structures, Discrete Math, Efficient Algorithms, Database Systems, Structure and Interpretations of Computer Programs, Principles of Data Science, Computer Architecture, Linear Algebra & Differential Equations, Calculus I & II

PROFESSIONAL EXPERIENCE

BlackPrint Technologies – *Startup leveraging AI to extract geospatial data* **San Francisco, CA**
Algorithms and Software Engineer April 2024 – Present

- Developed and deployed an NLP machine learning model using AWS Lambda and ECR, improving user experience for investor demos and future users by automating natural language processing tasks and reducing the average user query by 70%
- Built a web scraper that collected data from over 300,000 properties in Mexico, visualized and analyzed market trends, and enables users to verify the availability of specific properties, increasing market transparency by 80%
- 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

Alpha Omega Group **San Diego, CA**
Full Stack Software Engineering Intern May 2024 – Aug 2024

- Created a web application for managers to submit employee Monthly Status Reports (MSRs) using LangChain and OpenAI, automating the consolidation of reports into a comprehensive performance status report, reducing manual effort by 50%
- Structured and implemented the front end of the application using the Next.js framework, enhancing user experience and interface responsiveness, which resulted in a 40% increase in user engagement and satisfaction
- Built the backend with Python and FastAPI, integrating OpenAI for report generation. Utilized Docker and Kubernetes for containerization and orchestration and managed a database to store data and information

Seam – *Lego for Growth Hacking* **San Francisco, CA**
Software Engineering Intern May 2023 – Aug 2024

- Designed and launched no-code dashboards for comprehensive data analysis, equipping growth teams with the tools needed to identify trends; the solution increased lead generation by 50% over a six-month period.
- Engineered a robust REST API using Spring Boot and seamlessly integrated it with a PostgreSQL database; containerized the entire application with Docker, achieving a 30% reduction in deployment time for new product features.
- Serviced the impact of growth experiments on the customer funnel using SQL and machine learning models, resulting in a 20% increase in customer retention and 15% uplift in revenue generation

Data C8 – Undergraduate Course Staff – UC Berkeley CDSS **Berkeley, CA**
Course Tutor Jan 2024 – May 2024

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

TECHNICAL PROJECTS

Spot2 and Inmueble24 Property Data Pipeline May 2024 – July 2024

- Engineered a high-performance web scraping system using Python, Asyncio, and Playwright to extract data from 300,000+ property listings across 11 regions in Mexico City; 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 capabilities

COVID-19, Demographics and Political Affiliation Aug 2023 – Nov 2023

- Developed and implemented a k-Nearest Neighbors (k-NN) classifier to analyze the correlation between COVID-19 impact, demographic data, and political affiliation in U.S counties during the 2020 Presidential Election
- Achieved a predicted accuracy of 92.6% by utilizing machine learning techniques to process and analyze data from sources such as New York Times, Politico, The Census Bureau, and the EPA

SKILLS & INTERESTS

Skills: Java, Python, SQL, Pandas, Spring Boot, C, R, Next.Js, React, JavaScript, CSS, PHP, MS Excel, RISC-V Assembly, Regex, Farsi
Interests: Weight-Lifting, Chipotle, Tournament Chess (1700), Professional Soccer, AYCE KBBQ, Mechanical Keyboards, TFT