Rohan Sehgal

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Education

University of California, San Diego — June 2026
M.S. in Computer Science, Focus: AI/ML — *Major GPA: 3.8 / 4.0, 5x Dean's Honors List*
Relevant Coursework: *Data Structures and Algo, Distributed Systems, Operating Sys, Machine Learning, Foundational Programming, Analysis of Algorithms, Computer Architecture, Linear Alg, Discrete Math, Probability and Statistics*

Technologies

Languages: Python, Swift, Java, C, C++, ReactJS, Javascript, Tailwind CSS, SQL, Objective-C, Haskell
Tools: Git, XCode, REST APIs, Amazon Web Services, Django/Flask, Pandas, Postgres, Selenium, Jupyter Notebooks

Professional Experience

Amazon Robotics | *Advanced Robotics Simulation Group - AWS, Kubernetes, ROS* — Fall 2024
Incoming Software Engineering Intern — *Westborough, MA*

Salesforce | *Autonomous Response Team - GenAI, LLMs* — Summer 2024
Software Engineering Intern — *Bellevue, WA*

Paytote | *Python, SwiftUI, NextJS, AWS (Amplify, DynamoDB, API Gateway, Lambda)* — December 2023 - Present
Founder — *Santa Cruz, CA*
- Developed a **Swift-based iOS app** for **automated** receipt tracking, using **Square Payment API** and **AWS**
- Built website for stores to download extension with **NextJS**, **Tailwind** and implemented Square OAuth
- Enhanced efficiency and scalability using **AWS cloud technologies**, ensuring secure receipt processing

Capital One | *Python, XGBoost, Dask, Optuna, Pandas* — June 2023 - August 2023
Software Engineering Intern - Focus on Machine Learning — *Philadelphia, PA*
- Set up a **multi-node GPU distributed** training system using **DASK** to reduce **XGBoost model training time**
- Integrated the training system with a **ChromaDB** vector database and tuning model accuracy with **Optuna**
- Sped up data loading time by **10x** with data iterator and migrated existing work to **Kubeflow Pipelines**

Campus Cuisine on the Apple App Store | *SwiftUI, Amazon Web Services, REST APIs* — December 2022 - May 2023
Founder (led team of 5) — *Santa Cruz, CA*
- Created **iOS** app (**380+** users) to display dining hall menus across university campuses using **Swift/SwiftUI/UI Kit**
- Utilized **AWS API Gateway (REST), Lambda, S3, IAM, EventBridge** to automatically update menus
- Implemented **Google AdMob** and reduced memory by **267%** with **AWS infrastructure automation** practices

SAP National Security Services | *Javascript, SQL, SAP Frameworks* — June 2022 - December 2022
Software Engineering Intern — *Remote*
- Developed **5+** advanced analytics dashboards using **SAP front-end frameworks, Javascript,** and **SQL** for causes such as NOLB, a veteran-run charity focusing on evacuating Afghanistan interpreters and family
- Created incident reporting software service using **SAC**, allowing NS2 to view **130+** companies' customer data
- Revamped internal team's **SAP Solution Manager** to perform highly efficient **SAP HANA TPOs**

Datafly | *Javascript, HTML, CSS, Google APIs* — February 2022 - June 2022
Full-Stack Developer — *Santa Cruz, CA*
- Designed Shopify extension analytical tools using a combination of **Javascript, HTML,** and **CSS**
- Integrated **Google OAuth 2.0 API** to implement simple sign-on and several other **Google API** features

Projects (All GitHub Projects can be found at https://github.com/rohseh303/)

VibeMaps, CalHacks 2023 | *React Native, ConvexDB, LLMs (together.ai)*
- Developed a **full-stack** app to analyze Spotify listening data to output a trendy daily 'vibe' for users to share with others
- Led client-side development, utilizing Spotify OAuth and ConvexDB, and integration with custom LLM

Skills & Interests

Interests: Community Service with over **100+** volunteer hours, multi-sport athlete, cooking, reading, hackathons