Rohan Sehgal

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Education

University of California, San Diego

June 2025

M.S. in Computer Science, Focus: AI/ML

Major GPA: 4.0 / 4.0

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, C++, Java, C, Swift, ReactJS, Javascript, Tailwind CSS, SQL, Objective-C, Haskell

Tools: Git, REST APIs, Amazon Web Services, Django/Flask, Pandas, Postgres, Selenium, Jupyter Notebooks, XCode

Professional Experience

Amazon Robotics | Virtual Systems - Typescript, AWS EC2, Batch

September 2024 - Present

Westborough, MA

Software Development Co-op

• Building custom **AMI** to standardize **EC2**, installing Docker, NVIDIA drivers, and ECS agent configurations, cutting setup time and ensuring consistent, high-performance execution for GPU-accelerated tasks

• Developing automated integration tests to ensure stability for large-scale synthetic data generation

<u>Salesforce</u> | Autonomous Response Team - Python, Langchain

June 2024 - August 2024

Software Engineering Intern

Bellevue, WA

- Developed IAM Copilot to automate and optimize internal IAM support using a GenAI-driven backend system
- Utilized Python and LangChain, reducing operational delays and enhancing security responsiveness for 7,500+ users
- Backend integration with Slack UI, boosting real-time user engagement and speeding access to support

<u>Paytote</u> | Python, SwiftUI, NextJS, AWS (Amplify, DynamoDB, API Gateway, Lambda) Founder

December 2023 - June 2024

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**

<u>Campus Cuisine on the Apple App Store</u> | *SwiftUI, Amazon Web Services, REST APIs Founder (led team of 5)*

December 2022 - May 2023

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