Rohan Sehgal

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Education

University of California, Santa Cruz   September 2021 - June 2025
Bachelor of Science (B.S.) in Computer Science, Minor: Mathematics   *Major GPA: 3.8 / 4.0, 4x Dean's Honors List*
Relevant Coursework: *Data Structures and Algo, Computer Models, Database Sys, Machine Learning, Foundational Programming, Analysis of Algorithms, Computer Architecture, Linear Alg, Discrete Math, Probability and Statistics*

Technologies

Languages: Python, Swift, Java, C, C++, Haskell, Javascript, HTML 5, CSS, SQL, Objective-C, React
Tools: Git, XCode, REST APIs, Amazon Web Services, Jupyter Notebooks, Pandas, Postman, Selenium, Kubernetes

Professional Experience

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 (**300+** 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**

Society of Asian Scientists and Engineers | *Leadership, Marketing, Public Speaking*   February 2022 - June 2023
Public Relations Officer, Previously Corporate Liaison Intern   *Santa Cruz, CA*
- Facilitated communication with companies to hold events such as **resume workshops** and **Q&As**
- Publicized SASE events drastically to increase participation by **30%** the following year

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

Boy Scouts of America | *Leadership, Volunteering*   May 2016 - October 2021
Life Scout   *Fremont, CA*
- Led **20+** events associated with scouting such as community service, campouts, and troop meetings
- Earned **18** merit badges and built outdoor skills, such as first aid and geology

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

PayTote, Square Hackathon 2023 | *Python, SwiftUI, REST APIs, AWS Services*
- Developed a **Swift-based iOS app** for **automated** receipt tracking, using **Square Payment API** and **AWS**
- Automated receipt classification and scanning by leveraging **keyword matching** and **Selenium**
- Enhanced efficiency and scalability using **AWS cloud technologies**, ensuring secure receipt processing

Skills & Interests

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