

Sidhant Rohatgi

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EDUCATION

University of California San Diego

Bachelor of Science in Mathematics and Computer Science, Minor in Finance

San Diego, CA

Sep. 2022 – June 2026

EXPERIENCE

Bioinformatics Research Assistant

Sep. 2024 – Present

Cyphert Lab, UC San Diego

San Diego, CA

- Implementing bioinformatics pipelines for metagenomics research for sequence analysis and data integration.
- Using R to create detailed visualizations, facilitating insights into microbial community diversity and composition.
- Conducting data preprocessing, quality control, and optimization to improve efficiency and data reliability.
- Collaborating with lab members to refine experimental protocols and data workflows for studies.

Product Manager, Software Developer

Nov. 2022 – Present

Triton Software Engineering

San Diego, CA

- Progressed to Product Manager in Sep 2024, leading a team of 8 developers in Agile workflows, focusing on enhancing productivity and project timelines.
- Facilitating client meetings to align product features with market needs and project specifications.
- Implementing strategic process improvements to reduce delays and ensure on-time project delivery.
- Developed iOS and web applications using SwiftUI, React, and Redux to streamline data management.
- Designed and built scalable client/server applications with ExpressJS and MongoDB.

AI Team Intern

Aug. 2024 – Sep. 2024

Kearney

Abu Dhabi, UAE (Hybrid)

- Developed linear regression models and conducted market basket analysis to predict sales trends, improving inventory management.
- Conducted market benchmarking to inform competitive strategies for clients.
- Collaborated with cross-functional teams to deliver AI-driven solutions aligned with client goals.
- Optimized ML workflows, enhancing model accuracy and deployment efficiency.

Undergraduate Researcher

Nov. 2023 – Present

Edwin Solares Bioinformatics and AI Lab, UC San Diego

San Diego, CA

- Conducted genomic data analysis, building vector databases for LLM training.
- Optimized data processing for machine learning tasks, enhancing performance and cost efficiency.
- Analyzed genomic data using Meryl and Merqury for k-mer generation and quality checks.

Cloud Computing Intern

June 2023 – Aug. 2023

Noventiq

New Delhi, India

- Optimized Microsoft Azure cloud infrastructure according to clients' needs, reducing costs by 10-27%.
- Solved client issues by identifying inefficiencies and eliminating resource waste, achieving 15-20% savings.
- Assisted in automating cloud resource management, improving operational efficiency.

PROJECTS

Alum Mentorship iOS Application

Triton Software Engineering

Led the frontend development of an iOS app for connecting high school students seeking mentorship with alumni. Built app using SwiftUI with MVVM architecture, and integrated Firebase for real-time data management. Spearheaded API development using ExpressJS to create seamless data flows.

Sentiment Analysis of Amazon Reviews: Led a data science project analyzing 30,000 Amazon magazine subscription reviews using machine learning models. Successfully implemented logistic regression combined with TF-IDF and Word2Vec features to enhance sentiment classification, achieving an accuracy of 85.83 percent.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R, Swift, Bash

Frameworks / Libraries: React, Node.js, Express.js, Flask, Django, PySpark, PyTorch, OpenCV, NumPy, TensorFlow

Databases: MongoDB, SQL, Firebase, Weaviate, NoSQL

Developer Tools: Git, Docker, GitHub, LaTeX, Jira, Linux, Microsoft Azure