

Mihir Gupta

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Education

University of California San Diego

B.S. IN COMPUTER SCIENCE, MINOR IN BUSINESS

- GPA: 3.89

San Diego, CA

Sep. 2019 - January 2023

Experience

Amazon

SOFTWARE DEVELOPMENT ENGINEER INTERN

Seattle, WA

June 2022 - September 2022

- Worked with **Swift** and **AWS** as a member of the iOS development team for the Alexa Mobile Assistant.
- Designed a system-wide encoding improvement to reduce user-perceived latency with a focus on customers with weaker wireless connections.
- Built and tested the design, which delivered a **400% reduction in latency** for Alexa users on a 3G connection.
- Implemented automated testing and benchmarking for the solution, which is now scheduled for a 2022 Q4 release.

UCSD Mobile

MOBILE DEVELOPER

San Diego, CA

May 2020 - June 2022

- Overhauled various features on official UCSD mobile app with over 42,000 users using **Flutter**, API microservices, and **AWS**.
- Engineered COVID-19 test scanner, scaling up UCSD testing capacity and directly enabling **97% increase in test volume** from Fall 2020 to Winter 2021.
- Delivered various new features with complete implementations such as Student ID, campus announcements, shuttle availability, etc.
- Identified areas of improvement in existing codebase and implemented optimizations to **decrease app loading time by >35%**.
- Wrote various **RESTful API microservices** using **AWS Lambda** and **Node.js** to support new feature development.

CarMax

SOFTWARE ENGINEERING INTERN

Richmond, VA

June 2021 - August 2021

- Developed a tool for employees to track, diagnose, and resolve customer credit/debit/ACH payment issues using **C#/.NET**, **React**, and **Azure**.
- Implemented several API microservices to fetch and process data with **C#/.NET**, interacting with **Azure CosmosDB** and Application Insights.
- Wrote unit tests for API microservices with XUnit (C#), integration tests with Postman (JavaScript), and unit tests for frontend with Jest (Node.js).
- Built responsive frontend with intuitive design following internal CarMax design philosophies using **React**, **JavaScript**, **HTML/CSS**.

Skills

Languages Java, Swift, JavaScript, Python, C#, Dart, C, C++

Cloud AWS Lambda, Azure Functions, Azure DevOps, Azure Pipelines, Azure Cosmos DB, AWS S3, Microsoft SQL Server

Backend REST APIs, Flask, AWS, .NET, Azure Functions, Node.js

Frontend React, Flutter, SwiftUI, Material-UI, Adobe XD, HTML/CSS

Projects

College Aggregation, Search, and Application Web Application

COLLEGE SHARK (WWW.COLLEGE-SHARK.COM)

San Diego, CA

December 2019 - Present

- Launched web application using **Flask (Python)**, **React**, **Microsoft SQL Server**, and **Firebase** to streamline the college application process.
- Designed and wrote Flask API in **Python** to efficiently query SQL database with various search parameters and parsed results for frontend.
- Accelerated development by learning **React**, **HTML**, and **CSS** to increase collaboration between team members and deliver faster.

Vaccine Twitter Bot

VAXBOT SAN DIEGO (@VaxBotSD ON TWITTER)

San Diego, CA

March 2021 - July 2021

- Wrote a bot to check and alert users regarding COVID-19 vaccine availability at CVS, Walgreens and Vons using **Python** and Twitter API.
- Leveraged **Heroku** to deploy and host this application, allowing for rapid polling and minimal downtime enabling quick and reliable updates.
- Helped 50+ friends/family and Twitter users find COVID-19 vaccine appointments in San Diego County.