Mihir Gupta

San Diego, CA

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Education

University of California San Diego   *San Diego, CA*

B.S. IN COMPUTER SCIENCE, MINOR IN BUSINESS   *Sep. 2019 - Dec. 2022*

- GPA: 3.92

Experience

CarMax Inc.   *Richmond, VA*

SOFTWARE ENGINEERING INTERN   *June 2021 - August 2021*

- Developed a production-ready internal tool for customer service agents to track, diagnose, and resolve customer credit/debit/ACH payment issues using **C#/.NET**, **React**, and **Microsoft Azure**.
- Implemented several API microservices to fetch and process data with **C#/.NET**, interacting with **Azure CosmosDB** and ApplicationInsights.
- Built automated CI/CD pipelines using **Azure DevOps** enabling automated testing, quick fault isolation, and seamless deployments.
- 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**.
- Met with business stakeholders to review obstacles in the support process and modified the tool to further improve the customer experience.

UC San Diego   *San Diego, CA*

MOBILE DEVELOPER   *May 2020 - Present*

- Implemented various features on official UCSD mobile app with over 42,000 users using **Flutter**, API microservices, and **AWS**.
- Built COVID-19 test scanner, expanding UCSD testing capacity and directly enabling 97% increase in test volume from Fall 2020 to Winter 2020.
- 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.

Skills

Languages	Java, JavaScript, Python, C#, Dart, C, C++
Cloud	AWS Lambda, Azure Functions, Azure DevOps, Azure Pipelines, Azure Cosmos DB, AWS S3, Microsoft SQL Server
Backend	Flask, AWS Lambda, .NET, Azure Functions, Node.js, REST API design
Frontend	React, Flutter, Material-UI, Adobe XD, HTML/CSS

Projects

Car Comparison Service   *Richmond, VA*

FINALIST AT CARMAX COMPANY-WIDE HACKATHON   *August 4-6, 2021*

- Implemented web crawlers using **Puppeteer (Node.js)** to scrape competitor and appraisal websites (KBB, Carvana, etc.) to derive real-time market conditions for specific vehicles in CarMax inventory.
- Leveraged serverless technology (**Azure Functions**) to run crawlers at scale, demonstrating enterprise viability of idea.
- Built infrastructure and database services to store data, enabling dynamic repricing of CarMax vehicles, enhanced business insights, etc.

College Aggregation, Search, and Application Web Application   *San Diego, CA*

COLLEGE SHARK (WWW.COLLEGE-SHARK.COM)   *December 2019 - Present*

- Launched web application using **Flask (Python)**, React, **Microsoft SQL Server**, and **Firebase** to optimize 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   *San Diego, CA*

VAXBOT SAN DIEGO (@VAXBOTSD ON TWITTER)   *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.