Mihir Gupta

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Education

University of California San Diego   *Cum Laude | 3.88 GPA*

B.S. in Computer Science, Minor in Business   *September 2019 - December 2022*

Experience

Amazon | Software Development Engineer   *Sunnyvale, CA*

Alexa for Apps iOS SDK Team   *September 2023 - Present*

- Designed and developed solutions to complex problems for the iOS Alexa app and iOS SDK **(300 million monthly users)** using **Swift**.
- Implemented UI requirements for iOS/iPadOS for critical LLM feature on an expedited timeline using **SwiftUI** and **Figma**.
- **Reduced crash volume by >60%** after investigating crash logs and resolving multiple memory management issues.
- Unblocked SDK dialup by building on-device caching mechanism to **reduce event TPS by 80%**.
- **Improved ticket resolution speed by 25%** after consolidating metric dashboards and configuring threshold alarms with internal tooling.
- Communicated with PMs, product team, and various managers across teams to manage new feature development and existing integrations.

G2 Software Systems | Software Engineer   *San Diego, CA*

Joint Enterprise Network Manager   *January 2023 - September 2023*

- Developed features for DoD and the US Army on the JENM (Joint Enterprise Network Manager) application.
- Designed and delivered front-end features using **React**, **Redux**, **JavaScript**, and **HTML/CSS**.
- Developed high quality backend code using **Java** and **Maven** to add features requested by stakeholders.
- Wrote unit tests using **JUnit (Java)** and **Jest (Node.js)** as well as automated end to end tests with **React Testing Library**.
- Obtained active security clearance (SECRET).

Amazon | Software Development Engineer Intern   *Seattle, WA*

Alexa for Apps iOS SDK Team   *June 2022 - September 2022*

- Designed a system-wide encoding improvement to reduce user-perceived latency, focusing on customers with weak internet connections.
- Built and tested the design, which delivered a **560% reduction in latency** for Alexa users on a 3G connection.
- Worked with shareholders to launch in various iOS apps including Amazon, Amazon Music, and Audible, improving performance for **over 300 million monthly users**.
- Implemented automated testing and benchmarking for the solution using **XCTest** and internal CI/CD tooling and monitoring tools.
- Completed scoped objectives early and moved on to learning and delivering UI improvements with **SwiftUI**.

UCSD Mobile | Mobile Developer   *San Diego, CA*

UC San Diego Mobile Team   *May 2020 - December 2022*

- Overhauled various features on official UCSD mobile app with over 60,000 users using **Flutter**, API microservices, and **AWS**.
- Built a COVID-19 test scanner to scale up UCSD testing capacity, directly enabling a **197% increase in test volume** from late 2020 to early 2022.
- Delivered various new features with complete implementations leveraging **Flutter**, **AWS DynamoDB (NoSQL)**, and **AWS Lambda**.
- **Optimized application load time by >35%** by identifying areas of improvement in existing codebase and implementing improvements.
- Wrote various **RESTful API microservices** using **AWS Lambda** and **Node.js** to support new feature development.

CarMax | Software Engineering Intern   *Richmond, VA*

Systems Integration Team   *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 (NoSQL)** and **Application-Insights**.
- Wrote unit tests for 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, HTML, CSS, C#, Dart, C, C++
Cloud	CI/CD, AWS Lambda, Azure Functions, Git, Azure DevOps, Azure Pipelines, Azure Cosmos DB, AWS S3, Microsoft SQL Server
Backend	REST APIs, Flask, AWS, .NET, Maven, Node.js
Frontend	React, Flutter, SwiftUI, Material-UI, Redux, Adobe XD, HTML/CSS