

Samyak Kumar

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Education

BS in Computer Science

Georgia Institute of Technology, Atlanta

05/2022

Cum. GPA: 3.55/4.0 | Major GPA: 3.68/4.0

Coursework: Computer Vision, Machine Learning, Intro to AI, Data Structures, Algorithms, Databases

Work Experience

Amazon Web Services (AWS), Seattle, WA

Software Development Engineer II

10/2024 – Present

Software Development Engineer I · Promoted to SDE II

10/2022 – 10/2024

Team: CloudFormation StackSets (Infrastructure as Code)

- Lead design for complex features enabling customers to bridge security compliance gaps and expand customization, spanning task state management, cross-service communication across multiple microservices, security changes, and a public API.
- Lead the expansion of the service to new AWS regions across both commercial and ADC partitions; serve as the subject matter expert for region builds within the team.
- Ran comprehensive load tests to identify and resolve faults, scaling the service from a 15,000 to 50,000 account limit — eliminating stuck operations and repeated service alarms that occurred beyond the prior threshold.
- Own full project lifecycle — design, implementation, testing, documentation, and deployment — ensuring successful releases across all AWS regions.
- Reduced on-call load by ~25–30% by investigating, designing, and implementing a new locking mechanism in a serverless service to resolve a race condition.

Openwater VC, Atlanta, GA

Software Engineer Intern

08/2020 – 12/2020

- Developed a React Native application for startup Saymile.
- Built a Node.js/Express backend with Firebase to support messaging, group ordering, order tracking, and phone number authentication.

NCR Corporation, Atlanta, GA

Software Engineer Intern

05/2021 – 08/2021

- Built a microservice integrating internal services with Google Business APIs using the Loopback framework, OpenAPI specifications, GCP SQL/Scheduler backend, and an Angular frontend.
- Connected the microservice to an existing .NET codebase, implementing the frontend in JavaScript using the ExtJS framework and the backend in C#.
- Documented all APIs using Swagger and managed deployment with Kubernetes for scalability and Argo CI/CD.

Research

Stadium IOPT, Georgia Institute of Technology

Teaching Assistant

08/2019 – 05/2022

- Managing a team of front-end and back-end developers building a mobile iOS application in Swift with minigames to increase mid-game fan interaction and safety in Bobby Dodd stadium.

Independent Research, Georgia Institute of Technology

Undergraduate Research

08/2020 – 11/2020

- Created a demo for the paper "Feel The Music: Automatically Generating A Dance For An Input Song" with Professor Devi Parikh, using MFCC audio features and Markov states with beam search to generate dance videos from songs.