

# Gagan Deep Gopalaiah

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## SUMMARY

Well-rounded software engineer with three years of professional experience building enterprise SaaS products. I am on track to complete my Master's degree in June 2024 and am actively seeking full-time software engineering roles commencing in June 2024 and beyond. My interests lie in building microservices and RESTful APIs at scale.

## EDUCATION

### University of California, San Diego

Master of Science in Computer Science, GPA - 3.97/4.0

La Jolla, CA

Sept 2022 - June 2024

### Rashtreeya Vidyalaya College of Engineering

Bachelor of Engineering in Computer Science, GPA - 9.13/10.0

Bangalore, India

Aug 2015 – May 2019

## TECHNICAL SKILLS

**Languages and Libraries:** Golang, Python, Java, JavaScript, C/C++, SQL, HTML, CSS

**Developer Tools, Databases and Frameworks:** Git, Linux, Docker, Kubernetes, AWS, Azure, CircleCI, Jenkins, Terraform, Helm, Kafka; MySQL, PostgreSQL, DynamoDB, CosmosDB; Node.js, Next.js, SpringBoot, FastAPI, gRPC;

## PROFESSIONAL EXPERIENCE

### Software Engineer Cloud Intern

LitePoint Corp.

Jun 2023 - Sep 2023

San Diego, CA

- Drove the development of a full-stack application to demo IQFact+ wireless testers to potential customers. Helped reduce costs by enabling sales teams to demo the product to customers across the globe without physical shipments.
- Tech Stack - JavaScript, Express.js, Next.js, Node.js, Azure, Docker, Kubernetes

### Software Engineer - II

Cisco Systems Inc.

May 2021 – Jul 2022

Bangalore, India

- Developed and deployed an authorization and authentication framework for Cisco CX Cloud, which was adopted by multiple downstream teams and positively impacted over 100 customers. Integrated this framework with Okta to implement RBAC (Role-Based-Access-Control) and secure CX Cloud APIs with OAuth2.0 industry standard.
- Owned and designed backend microservices related to internal roles and resources. Developed RESTful Golang API endpoints as part of these services before hosting them on AWS.
- Tech Stack - Golang, gRPC, Okta, Rego, OPA, Docker, Terraform, AWS - DynamoDB, S3, SQS, Lambda, ECS, ECR

### Software Engineer

Cisco Systems Inc.

Jul 2019 – Apr 2021

Bangalore, India

- Developed microservices and RESTful APIs using Spring and FastAPI frameworks following agile methodologies for Optimal Software Version Recommendation (OSVR) and the Business Critical Services (BCS) teams. Drove technical discussions across different teams for cross-functional features leading to faster and coherent requirement specifications.
- Played a crucial role in maintaining the security of the codebase by serving as the point-of-contact for the Cisco Secure Development Lifecycle (CSDL). As a result, the codebase had zero critical vulnerabilities. I also ensured GDPR compliance for European CX Cloud customers.
- Tech Stack - Python, Java, Golang, AWS, FastAPI, SpringBoot, MySQL, Docker, Kubernetes, CircleCI, Kafka

## RESEARCH

### Graduate Research Assistant

Systems and Networking Group, UC San Diego

Apr 2023 – Present

La Jolla, CA

- Spearheaded the design and development of a distributed computing platform (GitHub repo) for scheduling autograder containers with a focus on carbon efficiency as a key member of the C3Lab (Carbonless Cloud Computing Lab).
- Tech Stack - Python, Bash Scripting, Docker, Kubernetes, PostgreSQL, MQTT, AWS - EKS, VPC, ECR, S3, IAM

## ENGINEERING PROJECTS

### FileSync - Dropbox clone

- Built a robust file synchronization application in Golang using a key distribution system based on consistent hashing for optimal performance. Integrated the Raft consensus algorithm to ensure fault tolerance and reliability.