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 March 2024 and am actively seeking full-time Software Engineering roles commencing in April 2024 and beyond. My interests lie in building cloud software and distributed systems at scale.

EDUCATION

University of California, San Diego — La Jolla, CA
Master of Science in Computer Science, GPA - 4.0/4.0 — Sept 2022 - Mar 2024 (Expected Graduation)

Rashtreeya Vidyalaya College of Engineering — Bangalore, India
Bachelor of Engineering in Computer Science, GPA - 9.13/10.0 — Aug 2015 – May 2019

TECHNICAL SKILLS

Languages and Libraries: Golang, Python, Java, JavaScript, C/C++, SQL, HTML, CSS, React.js
Developer Tools, Databases and Frameworks: Git, Linux, Docker, Kubernetes, AWS, Azure, CircleCI, Terraform, Helm; MySQL, PostgreSQL, DynamoDB, Elasticsearch, CosmosDB; Node.js, Next.js, SpringBoot, FastAPI, gRPC;

PROFESSIONAL EXPERIENCE

Software Engineer Cloud Intern — Jun 2023 - Sep 2023
LitePoint Corp. — San Diego, CA
- Drove the development of a full-stack application to demo LitePoint's testers to potential customers. Helped reduce costs by enabling sales teams to demo IQFact+ wireless testers to customers across the globe without physical shipments.
- Tech Stack - JavaScript, TypeScript, Express.js, Next.js, Node.js, React.js, Azure Cloud, Docker, Kubernetes

Software Engineer - II — May 2021 – Jul 2022
Cisco Systems Inc. — 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 services related to internal roles and resources. Developed RESTful Golang API endpoints as part of these services before hosting them on AWS.
- Tech Stack - Golang, Okta, OPA, Docker, AWS - DynamoDB, S3, SQS, Lambda, ECS, ECR

Software Engineer — Jul 2019 – Apr 2021
Cisco Systems Inc. — Bangalore, India
- Implemented new features and enhancements following Agile methodologies in 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, AWS, FastAPI, Elasticsearch, Docker, CircleCI

RESEARCH

Graduate Research Assistant — Apr 2023 – Present
Systems and Networking Group, UC San Diego — 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

LEADERSHIP AND TEACHING

Graduate Teaching Assistant — Sep 2022 – Dec 2023
University of California, San Diego — La Jolla, CA
- Served as a teaching assistant for CSE 210 Graduate Software Engineering, CSE 110 Software Engineering and CSE 134 Web Client Languages courses, leading 17 teams comprising a total of 170 students through course projects. Additionally, I led lab sessions and office hours, providing focused instruction and support for software development assignments.