Gagan Deep Gopalaiah

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EDUCATION

University of California, San Diego

La Jolla, CA

Master of Science in Computer Science

Sept 2022 - Mar 2024 (Expected)

R.V. College of Engineering

Bangalore, India

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

Aug 2015 - May 2019

TECHNICAL SKILLS

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

Developer Tools: Git, AWS, Docker, CircleCI, Terraform

Professional Experience

Software Engineer - II

May 2021 – Jul 2022

Cisco Systems Inc.

Bangalore, India

- Worked on building an authentication and authorization framework for Cisco CX Cloud which was used by multiple downstream teams impacting over a 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.
- Conducted timely code-reviews within the team to ensure excellent code quality. Also wrote efficient unit-tests to maintain adequate code-coverage (above 85%) and fixed static-testing (SonarQube) bugs.
- Drove technical discussions across different teams for cross-functional features leading to faster and coherent requirement specifications.
- Tech Stack Golang, Okta, OPA, Docker, AWS DynamoDB, S3, SQS, Lambda, ECS, ECR,

Software Engineer

Jul 2019 – Apr 2021

Cisco Systems Inc.

Bangalore, India

- Developed RESTful APIs using the microservices architecture for Cisco CX Cloud. APIs were written in FastAPI (Python3) and Spring (Java) frameworks.
- Achieved 0 critical security vulnerabilities in the codebase by serving as the point-of-contact in the team for CSDL (Cisco Secure Development Lifecycle). Ensured GDPR compliance for European CX Cloud customers.
- Tech Stack Python3, Java, AWS, FastAPI, Elasticsearch, Docker, CircleCI

Engineering Projects

CCTV Video Summarization

Jan 2019 – May 2019

- Developed a tool to generate dense time-stamped summaries of CCTV footage having sparse information, based on motion detection and user-queries. Preprocessed the footage to extract and store optical flow-tubes in the database. Selected flow-tubes were then stitched onto a background using Poisson Blending. Achieved a temporal compression ratio of 4-7x in the results.
- Tech Stack Python, OpenCV, PyQT, MongoDB

Bank Database System

Aug 2017 - Nov 2017

- Built a simulation of a banking website using Django and PostgreSQL. Added features such as depositing money, withdrawing money and taking loans. Built a UI for the banking website with HTML, CSS, JavaScript.
- Tech Stack Python, Django, PostgreSQL

LEADERSHIP AND VOLUNTEER ACTIVITIES

Teaching Assistant

Sep 2022 – Present

University of California, San Diego

La Jolla, CA

• TA for CSE 110 Software Engineering course. Currently leading and managing 5 teams (50 students overall) in their course project. Conduct lab sessions where I teach and resolve issues about software development assignments.

Tutor, Photographer

Oct 2015 – Mar 2020

 $Sarayu\ Charitable\ Trust$

Bangalore, India

• Tutored 30 underprivileged children in Maths, Science and Computers. Made use of my photographs to prepare descriptive documents for fundraising.