SANKALP GUNTURI

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Education

Carnegie Mellon University

Dec 2023

Master of Science in Software Engineering

Mountain View, CA

Coursework: Software Engg. Methods, Software Refactoring, Software Req. & Interaction Design

GPA: 3.53/4.0

K L University

May 2019

Bachelor of Technology in Electrical & Electronics Engineering (Gold Medal Awardee)

Andhra Pradesh, India

Coursework: Object-Oriented Programming, Discrete Math, Computer Organization & Architecture

GPA: 9.69/10.0

Skills

Programming Languages/Others: Python, JavaScript, TypeScript, C, Java, Bash, HTML & CSS

Technologies/Frameworks: ReactJS, NodeJS, ExpressJS, MongoDB, MySQL, Linux, Jenkins, Docker, Grafana

Tools: Git, Jira, Azure DevOps, Visual Studio Code, IntelliJ IDEA, Microsoft Office Suite

Professional Experience

Intern, Software Development Lifecycle Engineer

Jun 2023 - Aug 2023

JM Family Enterprises, Inc.

Florida, USA

- Collaborated closely with the CTO's office to integrate software development lifecycle phases with agile and DevSecOps processes, impacting approximately 500 developers across multiple business units.
- Created a Proof-of-Concept for GitHub Copilot, presented to CTO & Enterprise Architects, resulting in its widespread adoption across all business units, impacting the organization as a whole.

Senior Software Engineer - Cisco DNA Center

Jul 2021 - Jun 2022

LTIMindtree

Bengaluru, India

- Spearheaded the CICD workflow for Upgrade, 3-Node High Availability, Backup-Restore, Disaster Recovery scenarios, & reduced manual efforts by 50% by creating robust pipelines using Jenkins.
- Achieved a 20% improvement in defect detection within the CICD pipelines for each integration window.
- Implemented Docker-Containerization of 30% Jenkins nodes, resulting in increased reliability of CI/CD pipelines.

Software Engineer – Cisco Nexus 7000/9000 Switches

 $Oct \ 2019 - Jun \ 2021$

LTIMindtree

Bengaluru, India

- Improved firmware by adding important interrupts to On-Board Failure Logging (OBFL) as a feature for drivers affecting across all the NXOS family of switches.
- Debugged and peer-reviewed nearly 30 defects on stats manager and stats client anomalies.
- \bullet Assisted in the development of a pyATS script using Python to automate test cases on switches.

Academic Projects

Incident Response App (Full-Stack Development)

Jan 2023 - May 2023

- $\bullet \ \ \text{Collaborated with team of 20 \& applied SAFe to develop mobile comm. platform for emergency responders \& public.}$
- Developed feature-rich app utilizing ReactJS, Typescript, Storybook, NodeJS, and MongoDB.
- Initiated and guided a sub-team of 5 members in executing and deploying on AWS EC2 and S3 Bucket, while driving adoption on Jenkins and monitoring on Grafana.

JQual: Extract & Move Method Recommender

Mar 2023 – May 2023

• Co-created and implemented JQual with a team of 4, leveraging AST Node visitors & code smell detection to recommend code extraction & movement, enhancing modularity and reducing LCOM.

Optimization of the Knapsack Problem using Genetic Algorithm

Oct 2022 - Dec 2022

- Utilized SIMD intrinsics for FMA, MAX, & CMP operations to apply Tournament Selection method, efficiently computing fitness function.
- Employed SIMD vectorization & memory hierarchy management to boost efficiency of Crossover & Mutation.

Leadership

Student Leader, Carnegie Mellon ECE Graduate Organization

Oct 2022 - Dec 2023

• Facilitated events between Pittsburgh & SV campuses for ECE cohort comprising 100+ students.

Event Coordinator, Google Developer Student Clubs

Oct 2022 - Jan 2023

• Coordinated Startup Hackathon with participation from 50+ students, featuring Google employees as judges.