

SANKALP GUNTURI

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Education

Carnegie Mellon University

Master of Science in Software Engineering

Coursework: Foundations of Software Engg., Software Engg. Methods, Software Refactoring

Dec 2023

Mountain View, CA

GPA: 3.53/4.0

K L University

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

Andhra Pradesh, India

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

May 2019

GPA: 9.69/10.0

Skills

Programming Languages/Others: Python, JavaScript, TypeScript, C, Java, Bash, HTML5, CSS3

Technologies/Frameworks: ReactJS, NodeJS, Express, MongoDB, MySQL, Socket.IO

Tools: Git, Jira, Azure DevOps, Linux, Jenkins, Docker, Grafana, Swagger, AWS, Postman, Figma, Storybook

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.
- 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

- Collaborated with team of 20 to develop mobile communication platform for emergency responders & public.
- Leveraged Scrum, TDD & LeSS to develop app utilizing ReactJS, Typescript, Storybook, NodeJS & MongoDB.
- Led 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: Feature Envy Detector

Mar 2023 – May 2023

- Co-created JQual with a team of 4, utilizing AST Node visitors and code smell detection. JQual detects "brain methods," enabling optimal extraction and eliminating feature envy.

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 160+ students.

Event Coordinator, Google Developer Student Clubs

Oct 2022 – Jan 2023

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