SANKALP GUNTURI

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Education

Carnegie Mellon University — **Dec 2023**
Master of Science in Software Engineering — *Mountain View, CA*
Coursework: *Foundations of Software Engg., Software Engg. Methods, Software Refactoring* — **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, 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 & applied LeSS to develop mobile comm. 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.