SANKALP GUNTURI

Mountain View, CA

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Education

Carnegie Mellon University   **Aug 2022 – Dec 2023**
Master of Science in Software Engineering   *Mountain View, CA*

K L University   **Jun 2015 – May 2019**
Bachelor of Technology in Electrical & Electronics Engineering (Gold Medal Awardee)   *Andhra Pradesh, India*

Technical Skills

Languages/Others: Python, JavaScript, TypeScript, C, Java, Bash, HTML & CSS
Technologies/Frameworks: ReactJS, NodeJS, ExpressJS, MongoDB, MySQL, Linux, Jenkins, Docker, Git, Grafana

Work Experience

Intern, Software Development Lifecycle Engineer   **Jun 2023 – Aug 2023**
JM Family Enterprises, Inc.   *Florida, USA*
- Collaborated closely with the office of the CTO to vet and finalize software development lifecycle phases after engaging with various stakeholders, impacting approximately 1000 developers across multiple business units.
- Developed and executed Proof-of-Concept for GitHub Copilot, presented to CTO and 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.
- Defect detection in the CICD pipelines improved by 20% per 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*
- Enhanced 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.
- Contributed to development of pyATS script using Python for automating test cases on switches.

Projects

Incident Response App (Full-Stack Development)   **Jan 2023 – May 2023**
- Collaborated with a team of 20 & applied SAFe to develop mobile comm. platform for emergency responders & public.
- Created using ReactJS, Typescript, Storybook, NodeJS and MongoDB.
- Led a sub-team of 5 members in implementing & deploying on AWS EC2 & S3 Bucket, while driving adoption on Jenkins & monitoring on Grafana.

JQual: Extract & Move Method Recommender   **Mar 2023 – May 2023**
- Co-created and implemented JQual with a team of 4, utilizing 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**
- Applied "Tournament Selection" method to compute the fitness function using SIMD intrinsics for FMA, MAX & CMP.
- Optimization used for Crossover & Mutation functions: SIMD Vectorization, Parallelism, Memory Hierarchy Management.

Leadership Experience

Student Leader, Carnegie Mellon ECE Graduate Organization   **Oct 2022 – Present**
Collaborated events with Pittsburgh & SV campuses for ECE cohort comprising 1000 students   *Carnegie Mellon University*

Event Coordinator, Google Developer Student Clubs   **Oct 2022 – Jan 2023**
Organized events & workshops with the Google Community impacting around a 100 students   *Carnegie Mellon University*

Treasurer, IEEE Student Branch   **May 2017 – May 2019**
Elected twice for the Executive Committee, KLU Chapter, Asia-Pacific representing over 3000 students   *K L University*

Coordinator, TEDx   **Mar 2017**
Launched the first TEDxKLU on the theme "Emerge": ted.com/tedx/events/21092   *K L University*