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, Linux, Jenkins, Docker, Grafana, Prometheus, Swagger, AWS, Postman, Figma, Storybook
Certifications: Microsoft Certified: Azure Fundamentals (Issued Aug 2023)

Work Experience

Graduate Research Assistant   **Aug 2023 – Dec 2023**
CyLab, Carnegie Mellon University & Walmart Inc.   *Pittsburgh, PA*
- Working under Prof. Marios Savvides to explore advanced deep-learning methods to recognize various products in Walmart Inc. stores, aiming for high accuracy and AI generalization to unseen images and views.

Intern, Software Development Life Cycle Engineer   **Jun 2023 – Aug 2023**
JM Family Enterprises, Inc.   *Deerfield Beach, FL*
- Designed & co-architected end-to-end workflow for SDLC with Agile & DevSecOps processes, impacting approximately 500 developers across multiple business units.
- Streamlined & tailored Secure Controls Framework to align with company-specific requirements, mapping SDLC phases to 13 Technology Development and Acquisition Domains.
- Developed & demonstrated Proof-of-Concept for GitHub Copilot, anticipating 80% adoption rate across all business units within 3 months, aiming for 30% reduction in code development time & improved code quality.

Senior Software Engineer – Cisco DNA Center   **Jul 2021 – Jun 2022**
LTIMindtree   *Bengaluru, India*
- Spearheaded the CI/CD workflow for Upgrade, 3–Node High Availability, Backup–Restore, Disaster Recovery scenarios, & reduced manual efforts by 50% by creating robust pipelines.
- Achieved a 20% improvement in defect detection within the CI/CD 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.
- Collaborated in 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 create app utilizing ReactJS, Typescript, Storybook, NodeJS & MongoDB.
- Led sub-team of 5 in deploying on AWS EC2 & S3, while driving adoption on Jenkins & 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.

Leadership

Graduate Teaching Assistant, Carnegie Mellon University   **Aug 2023 – Dec 2023**
- Mentoring a cohort of 60 students for "Foundations of Software Engineering" course.