SANKALP GUNTURI

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Skills

Programming and Development: Python, JavaScript, TypeScript, C, Java, Bash, HTML5, CSS3, ReactJS, Node.js, Express, Jest, MongoDB, MySQL, Socket.IO

Tools, Frameworks, & Methodologies: Agile, Azure, SAFe, DevSecOps, Git, GitHub, Jira, Jenkins, Docker, Linux, Grafana, Prometheus, Swagger, Postman, Figma, Storybook, Django, Selenium, UML

Soft Skills: Ability to quickly learn and adapt, Effective verbal and written communication, Strong presentation skills

Certifications: Microsoft Certified: Azure Fundamentals (Issued Aug 2023)

Education

Carnegie Mellon University   **Dec 2023**
Master of Science in Software Engineering   Mountain View, CA
Coursework: Foundations of Software Engineering, Software Refactoring, Cloud Infra & Services   **GPA:** 3.53/4.0

K L University   **May 2019**
Bachelor of Technology in Electrical & Electronics Engineering (Gold Medal Awardee)   Vijayawada, India
Coursework: Object-Oriented Programming, Discrete Math, Computer Organization & Architecture   **GPA:** 9.69/10.0

Work Experience

Graduate Research Assistant   **Aug 2023 – Dec 2023**
CyLab, Carnegie Mellon University & Walmart Inc.   Pittsburgh, PA
- Designed and Implemented end-to-end CI/CD pipelines on Azure, deploying Machine Learning Models within a fully contained Docker container, achieving accurate product identification of Walmart store items.

DevSecOps Engineer Intern   **Jun 2023 – Aug 2023**
JM Family Enterprises, Inc.   Deerfield Beach, FL
- Assisted in design and architecture of end-to-end workflows for SDLC, Paved Roads, and Training & Coaching Materials with Agile and DevSecOps processes, impacting around 500 developers across diverse business units.
- Aligned Secure Controls Framework with company-specific requirements, mapping SDLC phases to 13 SCF domains through stakeholder collaboration, resulting in streamlined compliance integration & heightened risk identification.
- Implemented & integrated GitHub Copilot into existing dev practices, creating feature framework across business units, with anticipated 80% adoption in 3 months and aiming for 30% faster code development & enhanced quality.

Senior Software Engineer (DevOps) – 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, and reduced manual efforts by 50% by creating robust pipelines, impacting efficiency, reliability, and overall agility of the entire development and deployment process.
- Delivered 20% enhancement in defect detection for each CI/CD integration window through Docker-containerization of 30% of Jenkins nodes, resulting in a more resilient development process with improved overall software quality.

Software Engineer – Cisco Nexus 7000/9000 Switches   **Oct 2019 – Jun 2021**
LTIMindtree   Bengaluru, India
- Enhanced NXOS firmware with critical interrupts in OBFL, resolved 30+ defects, & developed pyATS automation scripts for switch testing, resulting in improved firmware reliability & streamlined switch troubleshooting.

Projects

- **Incident Response App**: Developed mobile platform for emergency communication with 20-member team. Utilized ReactJS, Typescript, Node.js, Figma & MongoDB. Managed AWS deployment & Prometheus Monitoring.
- **Emergency Social Network**: Collaborated in 5-member team using hybrid Agile practices (Scrum, Kanban, XP). Employed MVC, RESTful APIs, & Object-Oriented Analysis. Designed responsive UI/UX (Bootstrap, Mustache, EJS).
- **JQual: Feature Envy Detector**: Co-created JQual in Java with a team of 4, utilizing AST Node visitors and Code Smell Detection. JQual detects 'brain methods,' enabling optimal extraction and eliminating Feature Envy.
- **Purohitconnect.com**: Created integrated platform to connect Priests & Devotees, offering bookable services, chat features, filtered searches, in-house virtual services through Zoom, & versatile payment options.

Leadership

- **Graduate Teaching Assistant**: Mentoring cohort of 60+ students for "Foundations of Software Engineering" course.
- **ECE Student Leader**: Facilitated events between Pittsburgh & SV campuses for cohort comprising 160+ students.
- **Google DSC Event Coordinator**: Coordinated Startup Hackathon with participation from 50+ students.