



# SANKALP GUNTURI

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## Skills

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

**Tools, Frameworks, & Methodologies:** Agile, Azure, SaaS, DevSecOps, Git, GitHub, Jira, Jenkins, Docker, Linux, Grafana, Prometheus, Swagger, Postman, Figma, Storybook

**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

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### 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

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### Graduate Research Assistant

Aug 2023 – Dec 2023

CyLab, Carnegie Mellon University & Walmart Inc.

Pittsburgh, PA

- Collaborating with Graduate Advisor on advanced deep-learning for accurate product recognition at Walmart, while establishing AWS pipelines for seamless integration & delivery.

### 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, debugged 30+ defects, & developed pyATS automation scripts for switch testing, resulting in improved firmware reliability & streamlined switch troubleshooting.

## Projects

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- **Purohitconnect.com:** Created integrated platform using WordPress & PHP connecting Priests & Devotees, offering bookable services, chat features, filtered searches, in-house virtual services through Zoom, & versatile payment options.
- **Incident Response App:** Collaboratively developed mobile platform for emergency communication with 20-member team. Utilized ReactJS, Typescript, NodeJS, and MongoDB. Managed AWS deployment and tool adoption.
- **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 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

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- **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.