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 Engineering, Software Refactoring, Cloud Infra & Services	**GPA:** 3.71/4.0

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

DevOps Engineer Intern — **Aug 2023 – Dec 2023**

CyLab + Walmart Labs Inc. | *Docker, Kubernetes, Azure HDInsight, PERN stack* — Pittsburgh, PA

- Architected & developed self-checkout store system (beta) for Walmart that interacts with in-house computer vision models, aiming to reduce 30% checkout times & enhancing shopping experience for 1,000+ daily store visitors.
- Researched scaling patterns & implemented proof-of-concepts for PostgreSQL database versioning using Liquibase & image uploads using Apache Kafka anticipating 100+ concurrent users in the beta phase launch.

DevSecOps Engineer Intern — **Jun 2023 – Aug 2023**

JM Family Enterprises, Inc. | *Azure App Service, C#, ASP.NET* — Deerfield Beach, FL

- Accelerated migration to cloud-native applications by 2025 by architecting end-to-end SDLC workflows & creating paved roads to streamline dev processes across business units, impacting approx. 400+ pipelines & 1000+ apps.
- Integrated GitHub Copilot into existing dev practices by developing business-unit-specific proof-of-concepts, with anticipated 80% adoption in 3 months and 30% faster code development & enhanced quality.

DevOps Engineer – Cisco DNA Center — **Jul 2021 – Jun 2022**

LTIMindtree | *Python, Bash, Docker, Linux, Jenkins* — Bengaluru, India

- Modernized system testing by fully automating & containerizing CI/CD workflows for Upgrade, HA, Backup-Restore, and DR scenarios, resulting in 50% reduction in manual efforts & 20% early defect detection per integration window.

Software Engineer – Cisco Nexus 7000/9000 Switches — **Oct 2019 – Jun 2021**

LTIMindtree | *C, Linux, Cisco CLI, Python* — Bengaluru, India

- Enhanced Cisco NX-OS operating system by adding critical interrupts in the Onboard Failure Logging system, leading to improvements across all modern Nexus family of switches equipment.

Projects

First Responder Companion App | *React.js, Node.js, Express, MongoDB, Jenkins, Grafana, AWS S3 & EC2*

- Collaborated with 20-member team in developing mobile platform for communication among first responders during emergencies, employing hybrid agile practices and utilizing MVC, RESTful APIs, & object-oriented analysis.
- Led a 5-member delivery team in deploying on AWS through Jenkins CI/CD pipelines, implementing Docker containerization for environment replication, and integrating Grafana monitoring for API performance.

JQual: Feature Envy Detector | *Java*

- Collaborated with 4-member team to develop JQual, utilizing AST Node visitors and code smell detection to identify & optimize "brain methods," resulting in efficient code extraction & elimination of feature envy.

Big Data Toolbox | *Terraform, Docker, Kubernetes*

- Created a toolbox that includes Jupyter notebook, Apache Spark, Apache Hadoop, & Jenkins integrated with SonarQube and SonarScanner, within Kubernetes pods deployed using Terraform, simplifying the setup process for users getting started with Big Data.

Leadership

- **Graduate Teaching Assistant**: Mentored 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.

Skills

Development: Python, JavaScript, C, Bash, MERN stack, Jenkins, Terraform, Docker, Kubernetes, Grafana
Cloud: AWS: S3, ECS | GCP: Kubernetes Engine, Container Registry | Azure: App Service, HDInsight
Certifications: Microsoft Certified: Azure Fundamentals (Issued Aug 2023)