

# SANKALP GUNTURI

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## Work Experience

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### Full-Stack Engineer Intern

Feb 2024 – Present

Analytics 4 Everyone LLC | *TypeScript, React.js, Express, Node.js, PostgreSQL, OAuth*

Pittsburgh, PA

- Developed PodcaHub, a web and mobile app transforming podcast discovery & listening experiences through granular search functionality for content-based exploration, driving a 40% increase in user engagement during beta testing.
- Implemented content-based labeling and renaming system in PodcaHub, enabling accurate categorization and tagging of podcasts, leading to a 50% improvement in user satisfaction ratings.

### Full-Stack Engineer Intern

Aug 2023 – Dec 2023

CyLab + Walmart Labs Inc. | *JavaScript, React.js, Express, Node.js, PostgreSQL, Liquibase*

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.

### Software Engineer Intern

Jun 2023 – Aug 2023

JM Family Enterprises, Inc. | *C#, ASP.NET, Azure App Service*

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.

### Senior Software Engineer – Cisco Systems, Inc.

Oct 2019 – Jun 2022

LTIMindtree | *Python, Bash, Docker, Linux, Jenkins*

Bengaluru, India

- Modernized system testing suite for Cisco DNA Center by fully automating & containerizing CI/CD workflows resulting in 50% reduction in manual efforts & 20% early defect detection per integration window.
- 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

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### First Responder Companion App | *TypeScript, React.js, Node.js, MongoDB, Jenkins, Grafana, AWS S3 & ECS*

- 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, Jupyter, SonarQube, Apache Hadoop, Apache Spark*

- Created an open-source toolbox that kickstarts 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.

## 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:** 3.71/4.0

### 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:** 4.0/4.0

## Skills

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**Development:** Python, JavaScript, TypeScript, C, Bash, React.js, Express, Node.js, MongoDB, PostgreSQL, MySQL, Jenkins, Terraform, Docker, Kubernetes, Grafana, Apache Hadoop Ecosystem

**Cloud:** AWS: S3, ECS | GCP: Kubernetes Engine, Container Registry | Azure: App Service, DevOps, Function

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