

SANKALP GUNTURI

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Work Experience

Software Engineer Intern

Feb 2024 – Present

Analytics 4 Everyone LLC | *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.

Software Engineer Intern

Aug 2023 – Dec 2023

CyLab + Walmart Labs Inc. | *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

First Responder Companion App | *React.js, Node.js, Express, 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

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

Development: Python, JavaScript, 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)