SANKALP GUNTURI

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Work Experience

Software 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.

Software 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

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

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, 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)