Swaroop Reddy Vudumula

Engineering Leader | Director of Technology

Hyderabad,India • +91 63010 61108 • swaroop.vudumula@gmail.com • linkedin.com/in/swaroop-reddy-vudumula

SUMMARY

Strategic Technology Leader with 11+ years of experience directing engineering organizations of up to 40+ engineers across US and international markets. Expertise in scaling high-throughput enterprise SaaS, micro-frontend platforms, MLOps/AI pipelines, and event-driven architectures across manufacturing, healthcare, and automotive retail sectors. Proven track record of reducing operational downtime by up to 90%, cutting reporting latency, and engineering high-availability systems with 99.9% uptime.

CORE COMPETENCIES

Leadership & Strategy: Technology Roadmap, Engineering Management (40+ Engineers), Product Strategy, Agile/Scrum Transformation, Cross-Functional Alignment, Multi-Market Operations
Architecture & Frontend: Micro-Frontends, React.jsTypeScript, Redux, Systems Design, Performance Optimization
Backend & Cloud: Node.js, Python, REST APIs, Distributed Systems, Microservices, AWS, Azure, Docker, CI/CD
Data & AI/ML: Event Streaming, MLOps (MLflow), Vector Search, Anomaly Detection, SQL/NoSQL, Data Pipelines

PROFESSIONAL EXPERIENCE & EDUCATION

Director of Technology | ANKAR Engineers and Fabrications | Hyderabad, India (Apr 2023 – Present)

Headed end-to-end technology strategy and execution for industrial digital transformation, leading a 40+ engineering organization
Re-engineered legacy manufacturing operations into event-driven real-time data pipelines, resulting in a 50%–90% reduction in production downtime.
Automated ~60% of manual reporting workflows, cutting human intervention and operational latency across business units.
Deployed statistical time-series anomaly detection and predictive trend models using Python and MLflow to preempt machine failures. Architected scalable data warehouse pipelines and executive analytics dashboards to accelerate real-time KPI visibility.

Lead Full-Stack Developer | Safeway | San Ramon, CA, USA (May 2022 – Mar 2023)

Architected a high-availability healthcare and retail analytics platform handling millions of patient and pharmaceutical records with 99.9% uptime.
Engineered scalable data processing pipelines using React, Node.js, and WebSockets for near-zero latency clinical data.
Directed a cross-functional team of 8 software and data engineers to integrate predictive ML models into live clinical workflows.
Optimized high-volume API responses and SQL/NoSQL queries, cutting query overhead and reducing page render times.

Lead Software Engineer | CDK Global | Seattle, WA, USA (Mar 2019 – Apr 2022)

Architected micro-frontend systems supporting enterprise applications utilized by millions of daily active users, driving a 30% reduction in page load times
Established reusable UI component design systems, boosting developer velocity by 50% across multiple product squads.
Designed end-to-end CI/CD release pipelines and Azure cloud infrastructure, increasing release deployment cadence.

Senior Software Engineer | Bio-Rad Laboratories | Hercules, CA, USA (Jan 2017 – Feb 2019)

Built high-performance data visualization modules for life sciences and laboratory analytics platforms handling multi-gigabyte scientific datasets.
Created UML diagrams (Use Case, Class, Sequence) supporting object-oriented software engineering.

Software Engineer Avenir IT Private Limited | Hyderabad, India | June 2014 – July 2015

Developed web applications using HTML5, CSS3, JavaScript, and jQuery compliant with W3C standards.
Created UML architecture diagrams (Use Case, Class, Sequence) object-oriented system design and documentation.

MS in Computer Science | San Francisco Bay University, CA, USA (Aug 2015 – Dec 2016)
BS in Computer Science | GITAM University, India (Aug 2010 – May 2014)

Swaroop Reddy Vudumula

Engineering Leader | Director of Technology

Hyderabad,India • +91 63010 61108 • swaroop.vudumula@gmail.com • linkedin.com/in/swaroop-reddy-vudumula

Subject: Application for Executive Engineering Leadership Roles — Swaroop Reddy Vudumula

Dear Hiring Manager and Executive Leadership Team,

I am writing to express my strong interest in senior technology leadership opportunities within your organization. With over 11 years of global engineering experience across the United States and India—including leading 40+ person engineering organizations, modernizing enterprise architectures, and implementing AI/ML-driven analytics platforms—I specialize in translating complex technological transformations into bottom-line business value.

In my recent role as Director of Technology at ANKAR Engineers, I spearheaded the complete digital transformation of enterprise operations. By replacing legacy monolithic workflows with real-time, event-driven microservices and automated MLOps pipelines (MLflow), my team reduced operational downtime by 50%–90% and automated 60% of manual reporting workflows .

During my tenure in the United States at organizations such as Safeway and CDK Global, I architected high-availability healthcare platforms handling millions of records with 99.9% uptime and engineered micro-frontend platforms that cut page load times by 30% for millions of enterprise users. My technical depth across cloud architecture (AWS/Azure), full-stack JavaScript/Python ecosystems, and applied AI/ML allows me to bridge the gap between high-level business strategy and hands-on engineering execution

- **Defined Global Architecture Strategy:** Established governance standards and cloud infrastructure patterns for enterprise-level clients.
- **Led Digital Transformation:** Orchestrated full-scale ERP integrations and operations modernization, directly impacting the bottom line through automation and data-driven decision-making.
- **Mentored Engineering Talent:** Scaled teams by fostering a culture of rigorous architecture reviews, CI/CD excellence, and cross-functional ownership.

Global Mobility & US Operations:

I possess a cleared US I-140 (EB-2) approval and a valid B1/B2 visa with Global Entry Approval, making me uniquely positioned to lead distributed teams or transition to US-based operations with minimal administrative friction.

I am ready to travel or relocate as needed to ensure the success of global engineering initiatives. I am eager to discuss how my blend of hands-on engineering rigor and executive leadership can help your organization scale its technical vision. Thank you for your time and consideration.

Sincerely,

Swaroop Reddy Vudumula

linkedin.com/in/swaroop-reddy-vudumula