SUHAS GUPTHA MADDI

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EDUCATION

Stony Brook University — Stony Brook, NY | AUG 2023 - MAY 2025
MS in Computer Science — CGPA : 4.0

Birla Institute of Technology and Science, Pilani — Hyderabad, IN | AUG 2017 - JUN 2021
B.E. Computer Science — CGPA : 8.32

SKILLS

Languages: Java, C++, Python, JavaScript, C, Go, SQL, Bash, Shell, MATLAB
Frameworks: Spring Boot, REST API, GraphQL, Micro-services, React, HTML5, CSS
Technologies: Git, AWS, GCP, Docker, Kubernetes, Kafka, Redis, PostgreSQL, MongoDB, Elasticsearch, Salesforce Jenkins, Concourse, Helm, POSTMAN, LogZ

WORK EXPERIENCE

NUTANIX | Member of Technical Staff 2 — San Jose, CA | JUL 2025 – PRESENT

- Contribute to **Frontline**, Nutanix's internal sales tool supporting **quote creation** and the **order lifecycle**.
- Support a platform processing over **1M quotes annually**, ensuring reliability and smooth operations.
- Work on integrating **AI-driven features** into Frontline to enhance sales efficiency and user experience.

TGS | Intern — Houston, TX | JUN 2024 – AUG 2024

- Enhanced **Recorder Software** using **Python**, integrating extensive **shell scripting** and constructing **RPMs**.
- Created **user-friendly GUI applications** in Python for **lightweight Linux servers**, enhancing usability.
- Improved **system performance** and **user interaction** by **30%**, optimizing functionality and efficiency.

VMWARE CLOUD ON AWS, VMWARE | Member of Technical Staff — Bangalore, IND | Jul 2021 – Aug 2023

- Served as an integral part of a cross-functional team in architecting and implementing three pivotal micro-services, which dramatically increased the cost-effectiveness of **VMware Cloud on AWS by 15% within Q1 of deployment**.
- Managed a wide range of networking requirements for complex hybrid cloud infrastructure, implementing optimizations that **reduced network latency by up to 20%.**
- Coordinated the successful migration of the **Skyscraper Networking service** to the Runway Concourse CI/CD framework which **automated 95% of manual deployment tasks**, enhancing the service's scalability and reliability.
- Introduced a series of key performance indicators (KPIs) and analytics tools to monitor micro-service performance, leading to an **overall improvement of 22% in system efficiency and response time.**

R&D, VMWARE, INC. | Intern — Bengaluru, IND | AUG 2020 - DEC 2020

- Developed Virtual Cluster Memory (vCM), a new system offering enhanced data reliability and storage efficiency. **Successfully onboarded over 10 internal clients.**
- Augmented the initial vCM prototype by incorporating mirroring and compression functionalities, **effectively reducing storage requirements by 15%** and increasing data integrity without compromising on speed.

ENGINEERING DEVELOPMENT GROUP, MATHWORKS | Intern — Hyderabad, IND | MAY 2020 – JUL 2020

- Constructed a GUI tool specifically designed for bio-medical researchers, facilitating the plotting and analysis of ECG and EEG signals. This application **promoted the productivity of users by approximately 20%.**
- Utilized MathWorks' proprietary UI components to build an intuitive and user-friendly interface. The tool received a **user satisfaction rating of 90%** during internal reviews.

PROJECTS

BIGSPATIAL ANALYTICS PLATFORM — ReactJS, Three.js, Flask, Python, GCP

- Architected a spatial analytics platform using **Three.js** and **React** to render complex 3D visualizations of cancer cell data, enabling researchers to analyze spatial relationships and patterns in cellular structures.
- Implemented a scalable backend infrastructure using **Flask** and **Google Cloud Platform** for efficient storage and retrieval of high-dimensional spatial data, optimizing query performance for large-scale cancer cell datasets.

MEDISCRIBE GPT — Python, FastAPI, ReactJS, Assembly AI, Gemini, Claude

- Developed an end-to-end medical transcription system utilizing Assembly AI API, **Claude** and **Gemini** LLM APIs for automated report generation from doctor-patient conversations, achieving up to **88.6%** accuracy.
- Engineered a full-stack application with React.js frontend and FastAPI backend to process clinical audio files, implementing **HIPAA-compliant** system that handled **100+** simulated respiratory case conversations.