SURIYA CHELLAPPAN

+1(408)455-4739 \bigstar suriya.chellappan@sjsu.edu \bigstar LinkedIn \bigstar GitHub \bigstar Portfolio \bigstar San Jose, CA

EDUCATION

• San Jose State University, California

Master of Science in Engineering

Specialization: AI/ML & Cloud Technologies

• Anna University, Chennai, India

Bachelor of Technology in Information Technology

Aug 2024 - May 2026

CGPA: 3.4/4

Nov 2020 - April 2024

CGPA: 9.32/10

EXPERIENCE

• Student Assistant, 3D Unity Development, San Jose State University, CA

Jan 2025 - Present

- Engineered interactive 3D simulation models in Unity, enhancing realism and user engagement for educational VR demos.
- Optimized rendering and physics performance, boosting frame rates by 20% and reducing glitch artifacts.

• Member, Machine Learning SJSU Club, San Jose State University, CA

Aug 2024 - Present

- Developed a multimodal ML pipeline using ensemble models to enhance smart home voice recognition accuracy by 25%.
- Streamlined reinforcement learning training by compressing state spaces with unsupervised clustering, improving policy generalization across 3 environments.
- Data Analyst Intern, E-Parisaraa Pvt. Ltd., Bangalore, India

May 2023 - Nov 2023

- Analyzed real-time dismantling and recovery data using **Python** and **SQL**, improving material classification precision by **20%**, and built predictive models that increased batch revenue by **12%** and profit margins by **9%**.
- Designed interactive **Tableau dashboards**, cutting executive reporting turnaround by **40**%.

PROJECTS

• CollabSphere - AI-Powered Community Chat Platform

Jan 2025 - Mar 2025

- Built a full-stack real-time chat app using **Next.js**, **FastAPI**, **PostgreSQL**, and **WebSockets**, with smart replies and moderation via **GPT-4** and **Whisper**.
- Deployed on AWS EKS using Docker, Kubernetes, Terraform, and GitHub Actions, boosting moderation efficiency by 25%.
- VisionMeet AI-Supported Video Conferencing Platform

Feb 2025 - Apr 2025

- Built a video conferencing system with **React.js**, **Node.js**, and **MongoDB** supporting chat, screen sharing, and participant analytics.
- Integrated GPT-4, AWS Transcribe, and Azure Emotion API for meeting insights, and deployed to AWS ECS & EKS using Docker, Terraform, and CI/CD workflows.
- PolyChat Multilingual & Emotion-Aware Chat App

Mar 2025 - May 2025

- Developed a multilingual chat app using **Next.js**, **Node.js**, and **Socket.IO**, featuring real-time translation and emotion detection.
- Integrated AWS Translate, Comprehend, and GPT-4, and deployed via Docker, Kubernetes, and CI/CD on AWS EKS
- BrandSnap Instant Brand Identity Generator

Apr 2025 - May 2025

- Built a SaaS tool to instantly generate brand kits including logos, color palettes, and pitch decks using GPT-4 and Stability AI.
- Implemented async asset delivery via Celery + Redis and hosted the app on Azure AKS with infrastructure-as-code via Terraform.
- Agentic AI RAG Enterprise Assistant

May 2025 - Present

- Built an enterprise assistant with GPT-4, LangChain, and Pinecone to automate tasks across Google Workspace, Outlook, and Jira.
- Deployed via Docker, Kubernetes, and Terraform on AWS EKS, with CI/CD improving task scheduling efficiency by 35%.

SKILLS

- Programming Languages: C, C++, Python, Java, JavaScript, SQL, R
- AI/ML: Scikit-Learn, TensorFlow, PyTorch, OpenCV, NLP, MLOps, LLMs, Transformers, RAG
- Frameworks: Flask, ReactJS, NextJS, Flutter, Git, Streamlit
- Developer Tools: Docker, Kubernetes, CI/CD Pipelines (Jenkins, GitHub Actions), Jira, Ffmpeg
- Technologies: AWS, GCP, Azure, MySQL, APIs, MongoDB, PostgreSQL, Unity, Blender

CERTIFICATIONS

• Google Data Analytics Aug 2023

• Java Full Stack - Wipro May 2023

• Google IT Automation in Python Sep 2022

ACHIEVEMENTS

• AWS Cloudathon @ SJSU - 2nd Place Winner

Apr 2025

- Designed and deployed a scalable cloud architecture using React.js, FastAPI, ECS Fargate, and Aurora PostgreSQL. Showcased strong DevOps, cloud security, and teamwork skills through Terraform-driven AWS infrastructure.