

RESUME

Siddhartha Achari Sharabu

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🌐 [Portfolio](#) | [GitHub](#) | [LinkedIn](#) | [SourceForge](#)

PROFESSIONAL SUMMARY:

Cloud & Systems Engineer with 3 years of experience in infrastructure automation, cloud-native deployments, and scalable system design. Strong knowledge of **AI/ML concepts, Generative AI (OpenAI, Google Gemini), and agentic AI frameworks**, gained through extensive personal projects and academic work. Skilled in **Python, React JS, and modern AI/ML frameworks** with a proven ability to build prototypes, integrate AI services into applications, and optimize deployments on GCP and Kubernetes. Currently pursuing an **M.Tech in AI & Machine Learning** to deepen expertise in **LLMs, multi-agent orchestration, and intelligent automation**. Adept at translating complex technical concepts for business stakeholders and collaborating in cross-functional teams to deliver high-quality solutions.

TECHNICAL SKILLS:

- **Programming & Frameworks:** Python, React.js, C, Bash, React, OpenCV, TensorFlow, Keras
- **Generative AI & LLMs:** OpenAI API, Google Gemini, Prompt Engineering, LangChain, Multi-Agent Systems
- **Cloud & DevOps:** GCP (ACE & PCNE certified), Kubernetes (GKE), Docker, Terraform, Puppet, CI/CD (GitLab, Azure DevOps)
- **Embedded & IoT:** Raspberry Pi, Arduino, BeagleBone, Embedded Linux
- **Specialties:** System Design, Scalability, Security, AI-driven Automation

INDIVIDUAL PROJECTS:

Fortress Vault – Web-based Secure Storage Application

- Developed a **Next.js** web application integrated with **Firebase** for authentication and Firestore database storage.
- Implemented **role-based access control (RBAC)** for secure file and credential management.
- Designed a **responsive UI** with Material UI components for seamless multi-device use.

Multi-Agent AI Voice Assistant

- Built a **LangChain-based** assistant integrating **Google Gemini** for multilingual conversational capabilities.
- Added **hotword detection**, real-time audio streaming, and **vector database (FAISS)** retrieval for contextual answers.

Real-Time Recognition & Interaction System

- Developed a **Python + OpenCV** system on Raspberry Pi for facial detection and voice command-based hardware control.
- Integrated speech recognition and TTS for natural interaction.

Custom Embedded Linux OS (The Deck Linux)

- Created a lightweight, AI-optimized Linux distribution for **BeagleBone AI** during internship with BeagleBoard.org.

Handwritten Digit Recognition

- Designed and trained a **CNN** with **TensorFlow/Keras**, achieving **99.5% accuracy** on the MNIST dataset.

PROFESSIONAL EXPERIENCE:

Systems Engineer – Cloud & Automation

Tata Consultancy Services | Oct 2022 – Present

- Designed and deployed cloud-native applications on GCP and Kubernetes, ensuring scalability, security, and high availability.
- Automated infrastructure provisioning and configuration using Terraform and Puppet, reducing setup times by 40%.
- Developed and maintained CI/CD pipelines to streamline software build, testing, and deployment cycles.
- Provided L2 GCP cloud infrastructure support, troubleshooting compute, storage, and networking issues for global enterprise clients.
- Collaborated with project managers, business analysts, and engineers to ensure technical milestones were met
- Participated in architecture reviews to recommend performance optimizations and cost-efficient cloud strategies.
- Documented workflows and created knowledge base articles for operational excellence and team onboarding.

CERTIFICATIONS:

- Associate Cloud Engineer (GCP-ACE)
- Professional Cloud Network Engineer (GCP-PCNE)

ACADEMICS:

BITS Pilani, Hyderabad, India

Master of Technology (M.Tech) in AI & Machine Learning (Work Integrated Learning Programme) 2024
– Present

SVR Engineering College

Bachelor of Technology (B.Tech) in Electrical and Electronics Engineering

ESC Govt Polytechnic College

Diploma in Electrical and Electronics Engineering