Jaiker Siddharth

Software Engineer
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Summary

Dynamic Software Engineering graduate skilled in C/C++, Python, and AI. Experienced in developing innovative web and mobile solutions, optimizing performance, and solving complex problems. Proficient in Agile methodologies and eager to grow in a fast-paced technology environment.

Education

- **Sreenidhi Institute of Science and Technology** 05/2021 – 07/2025
  B.Tech in Electronics and Computer Engineering *Hyderabad*
- **Narayana Junior College** 01/2019 – 05/2021
  Intermediate Education *Hyderabad*

Technical Experience

- **Boston Consulting Group (Forage)** 09/2025 – 10/2025
  Job Simulation *Remote*
  - Designed prompt-engineering solutions for 3 simulated client cases, optimizing generative AI accuracy by **25%**.
  - Enhanced LLM output clarity using prompt refinement and evaluation metrics, reducing hallucination rate by **30%**.
  - Delivered a comprehensive report on ethical AI deployment for enterprise clients within a simulated consulting workflow.
- **Palo Alto Networks (via Eduskills Foundation)** 01/2022 – 01/2023
  Intern – Cybersecurity *Remote*
  - Configured and tested over **50+** firewall and VPN policies to improve internal security posture.
  - Performed log analysis and intrusion detection across **5 network environments**, improving response time by **20%**.
  - Contributed to the development of a secure testbed for validating IPS configurations, ensuring compliance with CIS benchmarks.
- **Bharat Intern** 03/2021 – 07/2021
  Intern – Machine Learning *Remote*
  - Built and deployed **3 ML models** for real-world datasets using Scikit-learn, Pandas, and TensorFlow achieving up to **92% accuracy**.
  - Optimized data preprocessing pipeline reducing model training time by **40%**.
  - Conducted comparative analysis of supervised vs unsupervised models on **5k+ samples**, enhancing evaluation framework robustness.

Key Achievements

- **Winner – National Level Hackathon at MGIT (2024)**
  Outperformed over 400 participants by designing and developing an Arduino-based automatic waste segregation system. Led a multidisciplinary team to build a working prototype capable of classifying waste using ultrasonic sensors and infrared modules.

Projects

- **Mental Health Chatbot** – Built using NLP and AI for empathetic user interaction.
- **Lane and Curve Detection** – Implemented with OpenCV for autonomous navigation.
- **Diabetes Prediction** – Created ML model for early detection and risk assessment.
- **Robotic Waste Sorting System** – Arduino-based system for automated segregation.

Research Publication

Calmbot: Empowering Mental Health Support with Emotional Analysis and Adaptive Responses
Accepted and presented at the *6th International Conference on Advances in Computer Science and Engineering (2025).*
Researched AI-driven emotional response systems integrating NLP and affective computing for digital therapy.

Certifications

- Microsoft Azure AI Essentials Professional Certificate
- Prompt Design in Vertex AI (Google Cloud)
- Cisco Certified Network Associate (CCNA)

Leadership & Extracurriculars

- **The Robotics Club - SNIST** 10/2023 – 11/2023
  Technical Coordinator, Roboveda Techfest
  - Resolved technical issues and trained juniors to improve team performance.
- **The Robotics Club - SNIST** 10/2024 – 11/2024
  Event Head - Technical
  - Led RC car race design and ensured fair judging standards.

Skills

Languages: Python, C/C++, JavaScript, SQL
Frameworks: React, Node.js, TensorFlow, Pandas, Scikit-learn
Domains: AI/ML, NLP, Robotics, Data Science, Cybersecurity
Tools: AWS, Azure, Arduino, OpenCV, Git

Languages

English (Native) Telugu (Native) Hindi (Native) German (Beginner) Marathi (Advanced)

Interests

Exploring new AI tools, Painting, Reading, and Music.