

SIDDHARTHA NAGULA

Austin, TX | siddharthanagula3@gmail.com | [LinkedIn](#) | [Github](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Founder & CEO with 5+ years building and scaling AI products, autonomous AI agents, and end-to-end automation solutions. Proven track record leading cross-functional teams to improve performance and drive business value. Committed to continuous improvement, operational excellence, and fostering a culture of innovation and accountability.

CORE COMPETENCIES

- **Languages & Frameworks:** Python, Java, C#, C++, Shell, Flask, Django, FastAPI, TypeScript, JavaScript, HTML, CSS
- **AI & Data Science:** LLMs, LangChain, Hugging Face, LlamaIndex, Diffusion Models, Transformers, OpenCV, NLP, FAISS, PyTorch, TensorFlow, Keras, GANs, Scikit-learn, Feature Engineering, Deep Learning, Model Tuning, n8n, MCP Tools, AI Workflows
- **Cloud:** GCP, Compute, IAM, BigQuery, Vertex AI, Kubernetes, Storage, AWS, SageMaker, EC2, S3, Azure, Serverless, Firebase
- **DevOps & MLOps:** Docker, Terraform, Data Pipelines, Weights & Biases, DVC, Airflow, CI/CD, Prompt Engineering
- **Foundations:** Object-Oriented Design, Design Patterns, Algorithms, Data Structures, Relational Databases, Log Analysis
- **Data Visualization:** Power BI, Tableau, Excel, Git, Redshift, Dashboards, Charts, Tables
- **Big Data & Databases:** Hadoop, Pandas, NumPy, Hive, MySQL, SQLite, PostgreSQL

WORK EXPERIENCE

AGI Automation LLC

Founder & CEO

Aug 2025 - Present

Austin, TX

- Established a data-driven decision framework to track user engagement, revenue, and system performance.
- Architected a production SaaS platform orchestrating 25+ AI agents, and reduced manual processes by 80% for users.
- Engineered a full-stack platform supporting real-time LLM streaming; reduced token usage by 30% through intelligent caching.
- Executed product roadmap balancing technical innovation with market demand, with major features based on competitive analysis.
- Managed business operations including financial planning and legal compliance; maintained runway while meeting targets.
- Developed an AI workforce orchestration system enabling inter-agent communication and automated task decomposition.
- Implemented RBAC, API management, and Stripe billing to support multiple subscription tiers.

Compass Group USA

Starbucks Supervisor (Part-time)

Jan 2024 - May 2025

Arlington, TX

- Increased shift productivity 20% through leadership of a 35-person team and standardized communication protocols.
- Automated daily logs and reports with Python and Excel macros, reducing reporting time by 15% and increasing data accuracy.
- Analyzed transaction and customer flow data, optimizing staffing and improving peak-hour throughput by 12%.

Personify

AI & Data Science Intern

Apr 2022 - Sep 2022

remote

- Optimized chatbot response time by 12% by developing an NLP bot with Azure Cognitive Services and FastAPI.
- Improved training efficiency by 5% through preprocessing and visualizing 1,000+ records using Pandas and Matplotlib.
- Enhanced model accuracy by 8% and reduced false positives by 6% by fine-tuning text classifiers in TensorFlow using Python.
- Implemented a real-time model-monitoring pipeline (Prometheus + custom data-drift detectors) that surfaced 100% of chatbot inputs out-of-distribution, cutting root-cause debugging time by 30% for the NLP service.

Black Iron Fitness Studio

Managing Partner

Jan 2020 - Jul 2023

India

- Enhanced email campaign analytics, achieving a 30% improvement in user engagement and response rates.
- Conducted churn analysis that improved customer retention rates by 22% through targeted interventions and predictive analytics.
- Improved payment accuracy by 30% by deploying a CRM that reduced manual entry by 20% and minimized delayed renewals by 10%.
- Led analytics initiatives delivering segmentation models, resulting in 47% customer growth and a \$200K annual revenue increase.
- Boosted customer retention by 22% through marketing performance analysis and behavior-based improvements.

Siddhartha Infrastructures

Managing Partner

Jul 2019 - Jul 2023

India

- Co-founded and scaled operations to \$1M+ in annual project revenue through operational improvements and technology adoption.
- Led cross-functional teams in engineering, operations, and finance; established KPIs that reduced delivery timelines by 25%.
- Drove business development and client-acquisition strategies, securing repeat contracts through consistent project delivery excellence.
- Negotiated vendor and subcontractor agreements that lowered project material costs by 12% while preserving delivery quality, contributing to \$1M+ annual revenue.

EDUCATION

University of Texas at Arlington

Master of Science, Computer Science

Aug 2023 - May 2025

Arlington, TX

ACHIEVEMENTS

- **Google Cloud Skills Boost Diamond League Cloud Architect:** Diamond League on Google Cloud Skills Boost (37.5k+ points, 100+ badges), and completed full Generative AI curriculum. Proven expertise in generative AI, multi-cloud (GCP/AWS), data engineering and DevOps with hands-on GKE, Terraform, BigQuery, LLMs, prompt engineering, multimodal RAG, and Responsible AI.
- **Excellence in Operations and Leadership Training:** Completed advanced operations training, mastered digital operational processes, and achieved top ranking in all digital learning modules for store operations and leadership. Recognized for excellence in both customer service and team management through successful completion of leadership, operations, and quality service certifications.
- **LeetCode Hard Problem-Solving Champion:** Solved 250+ hard challenges, showcasing mastery of data structures, algorithms, and design patterns while optimizing distributed-computing scenarios, coding standards, object-oriented design, design patterns.

PUBLICATIONS & CONFERENCES

- International Conference on Artificial Intelligence Trends and Pattern Recognition, ICAITPR-2022. Donation Web Application
- International Journal for Research in Applied Science and Engineering Technology, IJRASET-2023. Android Application for Online Advertising of Products and Services

CERTIFICATIONS

- **Building LLM Applications With Prompt Engineering:** NVIDIA: Certificate of Competency
Skills & Tools: Prompt Engineering, Large Language Models (LLMs), LangChain, NVIDIA NeMo, Llama-3.1, Generative AI, Retrieval-Augmented Generation (RAG), P-tuning, Model Performance Tuning, Experimentation & Evaluation, Data Analysis & Visualization for LLM workflows, Python, API Integration & Model Deployment.
- **Google Certified Associate Cloud Engineer:** Google Cloud: Diamond League with 75+ Badges
Skills & Tools: Compute Engine, Cloud Run, App Engine, Cloud Storage, BigQuery, VPC, IAM, Cloud Functions, Cloud Build, Pub/Sub, Cloud Monitoring, Cloud Logging, Cloud Shell, Cloud Source Repositories, CI/CD, Kubernetes Engine, Automation.
- **Ethical Hacking & Penetration Testing:** Udemy: Certificate of Completion
Skills & Tools: Kali Linux, Metasploit, Wireshark, SQLmap, Nmap, Aircrack-ng, BeEF, OWASP Zap, social engineering, network attacks (MITM, ARP/DNS spoofing), web vulnerabilities (SQLi, XSS, file inclusion).

PROJECTS

AI-Driven Health & Fitness Application | [Live Demo](#)

- Building a AI Health & Fitness Application for both android & iOS featuring personalized health scoring, nutrition and fitness tracking, real-time analytics, medication reminders, and weekly AI-generated summaries.
- Tech Stack: React, TypeScript, Supabase, Stripe, Tailwind CSS, Framer Motion, X-code, Swift UI, HealthKit

JD AI-Copilot for Grads | [Live Demo](#)

- Built a PWA for international graduates with visa tracking, AI job matching, LLM resume refinement, voice/video interviews, and financial tools. Integrated OpenAI/Claude, ElevenLabs, Tavus, Plaid, and Firebase Cloud Messaging with CI/CD pipelines.
- Tech Stack: React, TypeScript, Supabase, OpenAI, Firebase, Netlify, RevenueCat, GCP, Power BI

NetWorcked - CLI Security Toolkit | [Open Source](#)

- Facilitated educational learning and open-source contributions with over 100+ GitHub views and comprehensive project documentation.
- Automated vulnerability assessment and reconnaissance tasks by developing a Python toolkit with 10+ modular scripts, including Apache scans, CVE lookups, and OWASP Top 10 testing.
- Tech Stack: Python, Bash, Requests, BeautifulSoup, Nmap, CVE Search, OWASP Zap, Apache Benchmark, Regex, CLI, Git

AdsEarn - Android Analytics App | [Research Publication](#)

- Led a two-person UI/UX team to design a user-centric interface, increasing satisfaction scores by 10% during beta testing.
- Improved backend performance by 8% and reduced downtime by 12% by developing a Firebase-powered mobile app for targeted ad tracking and campaign analytics.
- Tech Stack: Java, Android SDK, Firebase, Firestore, Google Analytics, REST APIs, XML, Gradle, UI/UX Design

AI Document Assistant - Cloud & AI-Powered Chatbot | [GitHub](#)

- Built an AI chatbot that extracts cited answers from documents, enabling instant insights from PDFs, DOCX, and TXT files.
- Tech Stack: FastAPI, LangChain, FAISS, Hugging Face Transformers, React, Streamlit, Docker, Terraform, Pinecone, AWS, GCP

Service Request System (SRS) - Android App | [GitHub](#)

- Developed six core modules, including authentication, booking, and review systems, collaborated with cross-functional teams to deliver data-driven solutions and implemented Agile Scrum practices to improve sprint delivery by 25%.
- Tech Stack: Java, Android SDK, Firebase, XML (UI Design), Google Authentication, Agile Scrum, REST APIs, Git

Donation Web Application | [GitHub](#)

- Ensured 99% uptime by building a secure, real-time web donation platform using Django and SQLite.
- Created a dynamic analytics dashboard to monitor transactions, identify anomalies, and support predictive donor behavior modeling.
- Tech Stack: Python, Django, SQLite, JavaScript, HTML, CSS, Chart.js, Bootstrap, REST APIs, Security