Mohana Siddhartha Chivukula

623-432-6267 •mohanasiddhartha.chivukula@gmail.com • linkedin.com/in/siddharthachivukula/

EDUCATION

Master of Science Computer Science — Aug 2024 - May 2026
Arizona State University, Tempe, AZ — 4/4 GPA

Bachelor of Technology Computer Science and Engineering — Aug 2020 - May 2024
Shiv Nadar University, Delhi NCR, India — 7.61/10 GPA

TECHNICAL SKILLS

Programming: Python, Dart, C, C++, Java, Kotlin, SQL, JavaScript, Numpy, Pandas, Scikit-learn, TensorFlow, Flask

Web Dev, Databases: React, Tailwind CSS, HTML, CSS, Node.js, RealmDB, MySQL, MongoDB, Snowflake

Others: Android Studio, Flutter, Postman, RESTful API Integration, Git, Advanced Excel, Jira-Confluence, Agile, Waterfall, CI/CD

Certifications: ThoughtSpot and Tellius, Full Stack Web Dev, Docker Foundations, Microsoft Azure AI Essentials

PROFESSIONAL EXPERIENCE

Get SuperStars Inc., Albany, NY: Software Developer Intern — May 2025 – Aug 2025

- Took full ownership of a cross-platform mobile app development, architecting Flutter/Dart UI and RESTful API integration to absorb high-volume traffic spikes with no user-visible slowdowns (Flutter, Dart, RESTful APIs, Postman).
- Built and launched two customer-facing modules (Stories, Action Feed) in under six weeks by partnering with cross-functional teams, reducing runtime memory usage by 80% through allocation profiling and widget tree refactoring.
- Implemented a three-stage GitHub Actions workflow Code Analysis, Build Verification, and Configuration Validation, adding automatic PR checks and achieving near-zero rollbacks (CI/CD, GitHub Actions, Pull Request Checks).

ZS Associates, Gurugram, India: Business Technology Solutions Associate Intern — Jan 2024 – July 2024

- Developed 4 multi-layered data warehouse schemas (Staging, PSA, DWH, and DMT layers) to consolidate fragmented data sources and enable scalable storage and advanced analytics (SQL, Snowflake, Informatica IICS, Excel).
- Built and maintained end-to-end ETL pipelines to extract, transform, and load data from 70+ vendor datasets, ensuring data quality, consistency, and optimized processing (ETL, SQL, Snowflake, Informatica IICS).
- Performed data harmonization and enabled seamless integration across multiple data sources (SQL, Excel, Snowflake).
- Awarded "Dashing Debut" for outstanding performance as a new team member (H1'24 Rewards & Recognition).

EXTRA CURRICULAR & ACADEMIC POSITIONS

SCAI Grader, Arizona State University, School of Computing and Augmented Intelligence — Aug 2025 - Current

- Assisting Prof. Jaejong Baek in grading and managing coursework for CSE 469: Computer and Network Forensics and CSE 543: Information Assurance and Security.

Goldman Sachs Software Engineering Virtual Experience Program on Forage — Feb 2025 – Mar 2025

- Completed a Goldman Sachs governance analyst job simulation, assessing IT security and identifying outdated password hashing algorithms using Hashcat by proposing security enhancements like a dedicated hashing algorithm.

PROJECTS

Promptly, (React, Python, LLM APIs (Gemini, Groq), Ollama) — May 2025 – Jul 2025

- Designed a modular LLM agent framework with pluggable APIs, tool chaining, and a role-based system prompt.
- Implemented a vector-backed knowledge base enabling RAG, multi-step execution, and contextual memory.
- Led the development of a web application and included a tool where the agent can create a downloadable pdf.

Context Aware, Class Project, (Kotlin, CameraX, RealmDB, Android Studio) — Aug 2024 – Dec 2024

- Developed a context-aware Android application leveraging built-in phone sensors, using the CameraX API to record 45-second videos with flash and calculate heart rate from color variations in frames (Kotlin, CameraX).
- Employed a linear accelerometer to measure respiratory rate via chest movement detection and added a symptom rating system with data stored locally (Kotlin, RealmDB, Android Studio).

Optimizers in Deep Models, *Research Project, (Vision Transformers, Python, Tensorflow)* — Aug 2023 – Dec 2023

- Analyzed optimizers (Adam, Radam, Adabelief, AdamW, SGD) to evaluate accuracy across image recognition.
- Proposed enhancements to fine tune optimizers, incorporating weight decay and data augmentation for better results.
- Achieved 92.96% accuracy on CIFAR 10 and 71.26% on CIFAR 100 datasets using ViT with AdamW.

StockVision, *Class Project, (Python, Flask, React, Tailwind CSS)* — Jan 2023 – May 2023

- Developed a web app for real-time stock analysis, historical trend visualization, and AI-driven 7-day forecasts for NASDAQ/NSE stocks, empowering users with data-driven investment decisions.
- Integrated live stock prices using yahoo finance API and AI driven sentiment analysis to forecast market trends.