

# Mohana Siddhartha Chivukula

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## EDUCATION

<b>Master of Science Computer Science</b>	Aug 2024 - May 2026
Arizona State University, Tempe, AZ	4/4 GPA
<b>Bachelor of Technology Computer Science and Engineering</b>	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, HTML, CSS, Node.js, MySQL, Postgres, MongoDB, Snowflake, AWS (S3, IAM, Redshift, EC2)

**Others:** Android Studio, Flutter, Postman, RESTful APIs, GraphQL, Git, Advanced Excel, Jira, Agile, Waterfall, CI/CD

**Certifications:** Full Stack Web Dev, Docker Foundations, Microsoft Azure AI Essentials

## PROFESSIONAL EXPERIENCE

**Get SuperStars Inc., Remote: 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).
- 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 Forge** 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 Full Stack 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.