# Navigna Reddy Gangumalla

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## EDUCATION

**BS** *in Computer Science, Minor in Business* **4.0 GPA**
Arizona State University, Tempe, AZ  (*[Transcripts](#)*)
**Coursework:** *Data Structures and Algorithms, Operating Systems, Database Management Systems, Software Engineering, Information Assurance, Human-Computer Interaction, Discrete Mathematics, Probability & Statistics, AI/ML*

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, C++, C#, Kotlin, SQL, Go (Beginner), Bash
**AI/ML:** TensorFlow, PyTorch, NLP, LangChain, LLMs, Generative Models, Data Preprocessing
**Frameworks:** FastAPI, Spring Boot, Node.js, React, Flask, JavaFX, Django
**Cloud & DevOps:** AWS (Lambda, EC2, S3), GCP, Docker, Kubernetes, Jenkins, CI/CD, REST APIs
**Databases:** PostgreSQL, MySQL, Redis, MongoDB, H2
**Tools & Systems:** Git, GitHub, Linux, JSON, UML, Agile, OAuth 2.0, Microservice Architecture

## AWARDS/CERTIFICATIONS

- **Full-Stack Developer with Cognizant** — Sept 2025
- **AWS Certified Solutions Architect -** Associate — June 2025
- **AWS Certified Cloud Practitioner** — May 2025
- **Officer of the Year -** Connecting International Communities — May 2025
- **Garmin Scholarship Fund Cohort' 2024-2026** — May 2024

## PROFESSIONAL EXPERIENCE

**PatientConnect360 |** Scrum Master & Full Stack Developer — Aug 2025 - Present
- Collaborated with a 5-member Agile team to develop a secure, **HIPAA-compliant** home-health communication and scheduling platform using **React.js, TypeScript, Material UI, and React Native**
- Built **RESTful APIs** with **FastAPI and PostgreSQL**, implementing **JWT-based** authentication and exploring AI-driven reminder features to enhance user engagement
- Streamlined **CI/CD** workflows using **GitHub** and Vercel while maintaining comprehensive project documentation

**Principled Innovation Academy |** AI Intern — May 2025 - Aug 2025
- Fine-tuned **large language models** on **healthcare datasets**, improving contextual accuracy and overall model efficiency
- Led **data curation and tokenization pipelines** using PyTorch and Hugging Face to improve model training throughput
- Collaborated with ML researchers to evaluate **trustworthy AI metrics** such as bias detection and fairness consistency

**Arizona State University |** Software Engineering Teaching Assistant — May 2025 - Aug 2025
- Delivered 10+ lectures on **Agile, TDD, and software design** for 200+ students; mentored multiple team projects
- Designed lab assignments using **JUnit/Java** and GitHub PR reviews, improving student project quality and collaboration
- Developed an encrypted JavaFX Help System with **H2 Database** and Bouncy Castle, enabling multi-role access control

**City of Phoenix |** Application and Infrastructure Intern — Jan 2025 - May 2025
- Built a **C# and SQL-based** asset management system for 150+ staff, integrating Python automation for workflow efficiency
- Automated system monitoring and report generation using **Python** scripts, cutting manual maintenance efforts by 35%
- Resolved **120+** technical tickets through reimaging, deployment, and troubleshooting to maintain reliable IT operations

## PROJECTS

**Distributed Content Delivery Platform |** Java, Spring Boot, Redis, PostgreSQL, Docker, AWS — June 2025 - Sept 2025
- Designed the platform to address **slow response times in content-heavy applications**, enabling faster and more reliable delivery of large files to multiple users
- Optimized response times by 30% through **Redis caching and asynchronous task orchestration** in AWS containers

**Real-Time Study Group Platform |** React, Node.js, Socket.io, PostgreSQL, Redis, WebRTC — Apr 2025 - May 2025
- Developed a **real-time collaboration platform** with sub-100ms latency, video chat, and shared whiteboards using WebRTC
- Implemented **Redis session management** and authentication, achieving stable concurrent access for 50+ users

**SocialSense: Multi-Agent Debate Analysis System |** Python, LangChain, CrewAI, Redis, PostgreSQL — Dec 2024 - Feb 2025
- Built a **multi-agent system** (Mediator, Opponent, Fact-Checker) to analyze debates and detect misinformation using LLMs
- Achieved **92% detection accuracy** across **10K+ hourly interactions** using **LLM embeddings**, **vector databases**, and **custom retrieval pipelines** for fact verification

## LEADERSHIP

- **Appropriations Chair, Undergraduate Student Government (USG-T):** Managed $120K+ in funding requests, hosted town halls, and implemented transparent financial review systems
- **Adobe Student Ambassador:** Organized and led workshops on Adobe Creative Cloud tools for 200+ students