

Navigna Reddy Gangumalla

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EDUCATION

BS in Computer Science, Minor in Business

Arizona State University, Tempe, AZ ([Transcripts](#))

Expected Dec 2026

4.0 GPA

Coursework: Data Structures & Algorithms, Operating Systems, Software Engineering, Databases, Machine Learning, Web Development, Data Visualization, Software QA & Testing, Finance

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

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| ● Full-Stack Developer with Cognizant | Sept 2025 |
| ● AWS Certified Solutions Architect - Associate | June 2025 |
| ● Dean's List - Every Semester (2023–2025) | May 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

- Led a 5-member Agile team to build a **HIPAA-compliant AI health portal** accessible on **iOS, Android, and web**, improving patient-provider coordination
- Developed **RESTful APIs** with FastAPI and PostgreSQL for secure EMR data handling and predictive scheduling
- Automated CI/CD pipelines via **Vercel** and integrated MyChart/Heallow APIs, reducing deployment time by **40%** and enhancing data reliability

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 preprocessing, tokenization, and transfer learning**, enhancing model convergence and interpretability
- Collaborated with ML researchers to deploy fine-tuned models in live inference environments

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** and GitHub PR reviews, improving student project quality and collaboration
- Led the development of the **ASU Help System**, a secure JavaFX platform with encryption and role-based access

City of Phoenix | Application and Infrastructure Intern Jan 2025 - May 2025

- Developed a **C# and SQL-based asset management platform** for 150+ staff, automating IT workflows for 200+ devices
- Created **Python-based monitoring scripts** to track API uptime and asset utilization, reducing maintenance time by 35%
- Implemented containerized tools on **AWS** for scalability and infrastructure visibility

PROJECTS

Scalable Content Delivery System | Java, Spring Boot, Redis, PostgreSQL, Docker, AWS June 2025 - July 2025

- Built a distributed microservices platform with Redis caching and monitoring to handle concurrent workloads
- 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

SocialLens: Multi-Agent Debate Analysis | 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% misinformation detection accuracy** with 10K+ interactions per hour using embeddings and vector databases

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, promoting innovation and collaboration