

Navigna Reddy Gangumalla

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EDUCATION

BS in Computer Science, Minor in Business	Expected Dec 2026
Arizona State University, Tempe, AZ (Transcripts)	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

• 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/Healow 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