



Vignesh Ponnam

MSCS GRADUATE STUDENT
AI/ML DEVELOPER, SOFTWARE

CONTACT

 vagnishavignesh@gmail.com

 +18382029271

 <https://www.linkedin.com/in/ponnam-vignesh-476a04240/>

EDUCATION

- University at Albany, SUNY – M.S. in Computer Science | Grade: 3.6 | 2024–2026
- Sreenidhi Institute of Science & Technology – B.Tech | GPA: 8.7 | 2020–2024
- Sri Gayatri Junior College – Intermediate | 97% | 2018–2020

ACHIEVEMENTS

- GATE 2023 Qualifier
- TCS NQT: Ninja Ranger

UNIVERSITY INVOLVEMENT

Web Development Chair – (ISO)

Indian Student Organization

2025–2026

SKILLS

- Languages: Python, Java, C
- Technologies: Graph Database, Neo4j, Kuzu, ReactJS, Flask, WebRTC, Visual Cryptography
- Cloud & DB: AWS (S3, RedShift), MongoDB, Google CloudSQL
- Concepts: RAG Pipelining, LLMs, Machine Learning, Cybersecurity, Full-stack Development

ABOUT ME

M.S. Computer Science student at the University at Albany with experience in AI, machine learning, and cloud-based application development. Skilled in building knowledge graph-driven RAG systems, secure full-stack solutions, and data-driven platforms. Proficient in Python, Java, ReactJS, and AWS, with a strong interest in AI-powered automation, intelligent data systems, and scalable software architectures.

INTERN EXPERIENCE

AI/ML DEVELOPER - DIGITAL TWIN

NORDTECH - Jun - Dec 2025

- Designed and implemented AI/ML pipelines for intelligent, data-driven systems, supporting model training, evaluation, and deployment workflows.
- Integrated machine learning models and LLMs into software applications to enable context-aware and automated decision-making.
- Applied software engineering best practices to develop modular, maintainable, and scalable components across AI-driven applications.
- Collaborated with cross-functional teams to analyze system performance, document technical implementations, and iterate on solution improvements.

STUDENT ASSISTANT - University at Albany

- Graded assignments, quizzes, and exams according to instructor guidelines.
- Maintained fairness, accuracy, and confidentiality in grading.
- Supported course operations and communicate effectively with students and TAs.

PROJECTS

- **GraphRAG** – Developed a Knowledge Graph enhanced RAG system to support Digital Twin platform.
- **Agro-Assist** – Developed an AI-powered platform for farmers offering crop prediction, weather alerts, e-commerce, and equipment rental.
- **MediCare** – Built a hospital management system using Google CloudSQL for secure, scalable patient data management.
- **Phishing Detector** – Created an Android + Flask application that detects malicious URLs using machine learning models.
- **Meeting Scheduler** – Implemented a secure scheduling system with ReactJS/WebRTC and visual cryptography for data protection.
- **SOC Response** – Designed a cybersecurity analysis tool for threat detection and incident response.
- **Recipe Search** – Built a ReactJS-based recipe finder integrating external APIs for real-time search results.
- **AWS Data Tool** – Developed a data analytics solution leveraging AWS S3 and RedShift for large-scale dataset processing.

CERTIFICATIONS AND TRAINING

- **Salesforce Developer** – 55 badges, 13 SuperBadges.
- Hands-on experience in Salesforce development using Apex and Lightning Web Components, with a strong focus on application customization, automation workflows, data modeling, and security implementation through real-world SuperBadge challenges.
- **AWS Cloud Architecture & Data Analytics**
- Practical experience in AWS Cloud Architecture and Data Analytics, working with services such as S3, RedShift, RDS, and EC2 to design scalable data pipelines, manage cloud databases, and support analytics-driven workloads.
- **Cisco Networking Associate**
- Strong foundation in IP networking, routing, subnetting, and enterprise network topology design.
- **Palo Alto Cybersecurity**
- Trained in SOC operations, firewall configuration, and network/cloud security fundamentals.