



Kavya Shree Mohankumar

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EDUCATION

Georgia Institute of Technology – Atlanta, GA **May 2028**
Bachelor of Science in Computer Engineering **GPA: 3.98**

TECHNICAL SKILLS

Cloud & DevOps: AWS (Lambda, CloudFormation, SNS, EC2, S3, RDS, VPC, IAM), OCI, Azure, GCP, Infrastructure as Code, CI/CD (Jenkins, GitHub Actions, Bitbucket), Docker, Kubernetes, Terraform, Checkov
Programming: Python, JavaScript, Java, C/C++, SQL, Bash/Shell Scripting, Embedded C
Systems: Distributed Systems, Microservices Architecture, RESTful APIs, Event-Driven Architecture, Message Queues
Platforms: Linux (Ubuntu, Debian, Slackware), Git, GitHub, Bitbucket, Jira, VS Code
Hardware: Raspberry Pi, Arduino, ESP32, UART/SPI/I2C, Oscilloscope, Wireless Protocols (ESP-NOW, Wi-Fi)
Security: Vulnerability Assessment, NIST Framework, Network Analysis, HIPAA Compliance

EXPERIENCE

CEO / Co-founder, Kintic, Corp. (CREATE-X Startup, 5K Funded) | kintic.dev – Atlanta, GA **Dec 2025 – Present**

- Architected end-to-end AI-powered DevOps platform on AWS managing infrastructure via natural language with RBAC
- Engineered NLP-to-CLI translation system with safe execution workflows and CloudFormation IaC generation
- Integrated GitHub/Bitbucket for automated deployments, IaC scanning (Checkov), CI/CD triggers, and failure analysis

Software Engineering Intern, Tech Mahindra – Nashville, TN **Jun 2025 – Aug 2025**

- Deployed full-stack applications using AWS CloudFormation in Agile environment with SAP S/4HANA integration
- Configured Lambda functions, SNS topics, and CI/CD pipelines with Jenkins, Bitbucket, Jira

AI Trainer, Handshake – Contract **Aug 2025 – Present**

- Analyzed LLM outputs for scientific accuracy, clarity, and depth in specialized subfields
- Conducted independent research to support prompt development and evaluation tasks

PROJECTS

Smart City Infrastructure | Vertically Integrated Projects, Georgia Tech **Jan 2026 – Present**

- Working on Self-Calibration team automating IMU reference-frame calibration for vehicle motion tracking
- Researching lightweight algorithms for self-calibration between IMU sensors and vehicle axes using GIS, GPS, ML

AI for Satellites | VIPR Research, UGA (Best CURO Paper Award, 2026) **Aug 2025 – Dec 2025**

- Applied Neural Radiance Fields (NeRF) to UAV imagery for 3D reconstruction on UAV NeRF team
- Implemented point-cloud-to-mesh workflows using COLMAP, NumPy, Open3D with LPIPS quality evaluation

SafeSense (UGAHACKS 11 Winner) | <https://github.com/kavyakavime/safeSense> **Feb 2026 – Present**

- Built SafeSense, an AI + sensor-fusion hazard detection system (YOLOv8, OpenCV, Arduino) with less than 2s verified alerts and zero false positives in testing. Writing a research paper regarding safety hazards.
- Developed a multithreaded Flask pipeline integrating computer vision, temperature/humidity sensors, and Twilio SMS alerts on 30 hardware.

Embedded Systems Portfolio | <https://github.com/kavyakavime/EE-portfolio> **Nov 2025 – Present**

- Developed sensor integration and wireless communication projects (ESP-NOW, Wi-Fi) using Arduino, ESP32, Raspberry Pi
- Implemented UART, SPI, I2C interfaces for distributed microcontroller systems with real-time OLED/LCD displays

Cybersecurity Portfolio | <https://github.com/kavyakavime/cybersecurityPortfolio> **May 2025 - Present**

- Built vulnerability assessments, incident response, and packet analysis projects using Linux CLI, tcpdump, Wireshark
- Developed Python algorithms and SQL queries for data-driven investigations applying Pyramid of Pain framework

ACTIVITIES & HONORS

Georgia Tech Hackathon Winner • YC Startup School • YC voice agents hackathon • UGA CURO Best Research Paper Award 2026 • Seal Of Biliiteracy by Georgia Governor

CERTIFICATIONS

AWS: Solutions Architect – Professional, Solutions Architect – Associate, Cloud Practitioner • **Google:** Cybersecurity Professional • **Oracle:** Cloud Infrastructure Foundations, AI Foundations • **Microsoft:** Office Specialist