

CHARITH KAPULURU

kapulurucharith@gmail.com | [LinkedIn](#) | [GitHub](#) | [charithkapuluru.com](#)

EDUCATION

University of North Texas — Denton, TX

Master of Science in Computer Science | Aug 2024 – May 2026 (Expected)

SASTRA University — Tamil Nadu, India

B.Tech in Information & Communication Technology | May 2019 – May 2023 | CGPA: 7.85/10

TECHNICAL SKILLS

| | |
|-------------------|--|
| Cloud | AWS (ECS, ECR, ALB, VPC, CloudWatch, CodePipeline, IAM, S3, SNS) |
| IaC | Terraform |
| CI/CD | GitHub Actions, AWS CodePipeline, AWS CodeBuild |
| Containers | Docker, AWS ECR, ECS Fargate |
| Security | Semgrep (SAST), Trivy (Container Scanning), IAM Policies |
| Monitoring | CloudWatch (Logs, Metrics, Alarms, Dashboards) |
| Languages | Python, Bash, HCL |
| Tools | Git, Make, Linux |

PROJECTS

DevSecOps CI/CD Pipeline | [GitHub](#) | [Portfolio](#) | [Demo Video](#)

FastAPI, Docker, GitHub Actions, Semgrep, Trivy

- Built automated CI/CD pipeline with GitHub Actions integrating SAST (Semgrep) and container vulnerability scanning (Trivy), enforcing security gates before deployment
- Containerized FastAPI microservice with Docker, achieving optimized ~190MB image with health checks and structured JSON logging
- Implemented 18 automated tests with pytest and integrated Ruff linting with 700+ rule checks into CI workflow
- Published container images to GitHub Container Registry with automated tagging on every merge to main

AWS ECS Fargate Infrastructure | [GitHub](#) | [Portfolio](#) | [Demo Video](#)

Terraform, AWS (ECS, ECR, ALB, VPC, CodePipeline, CloudWatch)

- Provisioned production-ready container infrastructure on AWS using Terraform, including VPC with public subnets, ALB, ECS Fargate cluster, and ECR repository
- Implemented CI/CD pipeline with AWS CodePipeline automating Docker builds via CodeBuild and rolling deployments to ECS on every GitHub push
- Configured CloudWatch monitoring with custom dashboard tracking CPU, memory, request count, and error rates, plus SNS email alerts for threshold breaches
- Reduced compute costs ~70% using Fargate Spot capacity provider and scheduled auto-scaling to scale down during off-hours

AWARDS & RECOGNITION

1st Place — UNT Cybersecurity Hackathon 2024

- Built a phishing email classifier using machine learning techniques

Finalist — Inter-University Cloud Security Challenge, SASTRA 2023

- Competed in cloud security policy and IAM enforcement challenges

LEADERSHIP & INVOLVEMENT

Cybersecurity Hackathon Team Lead — University of North Texas | 2025

- Led team of 5 peers in building an intrusion detection system demo for university competition

Workshop Organizer — UNT Cybersecurity Awareness Week | 2024

- Organized and facilitated workshops on phishing prevention for students

Team Lead — Cloud Security Challenge, Student Tech Fest | 2023

- Directed team strategy for IAM policy and cloud security enforcement competition

Peer Mentor — Student Developer Club

- Mentored junior students in Python for Security fundamentals