CHARITH KAPULURU

kapulurucharith@gmail.com | linkedin.com/in/charith-kapuluru | GitHub | charithkapuluru.com

Education

University of North Texas   **Aug 2024 - May 2026**
Master of Science, Computer Science   *Denton, TX*

Technical Skills

- **Languages**: Java, Python, SQL, JavaScript, TypeScript, Bash, HCL
- **Frameworks**: FastAPI, React, Node.js, REST APIs, GraphQL
- **Cloud & Containers**: AWS (ECS, ECR, Lambda, ALB, VPC, S3, CloudWatch, IAM), Docker, Kubernetes
- **Data**: SQL Server, PostgreSQL, JPA/Hibernate, Stored Procedures, Pandas
- **CI/CD & IaC**: GitHub Actions, AWS CodePipeline, Jenkins, Terraform, CloudFormation
- **Observability**: Splunk, Datadog, Dynatrace, CloudWatch, Grafana, PagerDuty
- **Security & Auth**: OAuth2, JWT, IAM Policies, HashiCorp Vault, SonarQube
- **Tools**: Git, Jira, Confluence, ServiceNow, Streamlit, Linux

Experience

KANsolv Technologies India Pvt Ltd

Software Engineer   *Hyderabad, India* · **Aug 2022 - Jul 2024**
- Designed and developed Python and Java microservices serving REST APIs for healthcare and e-commerce clients, breaking down monolithic applications into containerized services deployed on AWS ECS and Kubernetes
- Built ReactJS-based dashboards consuming REST and GraphQL endpoints to visualize application metrics, deployment status, and security findings for stakeholders using Streamlit and custom React components
- Managed SQL Server databases with stored procedures, optimized queries, and integrated JPA/Hibernate for data access layers-reducing average API response times by 30%
- Implemented OAuth2 and JWT-based authentication for service-to-service communication and user authentication across multi-account AWS environments, reducing unauthorized access incidents by 40%
- Led migration of 3 client applications from on-premises monoliths to AWS microservices architecture, implementing CI/CD pipelines via CodePipeline and automated testing-reducing hosting costs by 35%

Software Engineering Intern   *Hyderabad, India* · **Aug 2021 - Jul 2022**
- Maintained and enhanced monolithic Java and Python services running on container platforms, writing unit tests and participating in code reviews to ensure alignment with architectural specifications
- Built centralized observability dashboards using Splunk and Dynatrace to monitor production environments and debug performance issues across 8+ client workloads, reducing mean time to resolution by 25%
- Wrote Python automation scripts for database migrations, log analysis, and compliance reporting-creating Streamlit dashboards to visualize test results and communicate findings to project managers
- Participated in project planning sessions with business analysts and team leads, translating business requirements into technical specifications and documenting application designs in Confluence

Projects

DevSecOps CI/CD Pipeline | GitHub
- Designed and developed a FastAPI microservice with REST endpoints, containerized with Docker and deployed through an automated CI/CD pipeline enforcing SAST (Semgrep) and container scanning (Trivy) security gates
- Implemented 18 automated tests with pytest and Ruff linting with 700+ rules, publishing images to GitHub Container Registry with automated tagging on every merge

AWS ECS Fargate Infrastructure | GitHub
- Provisioned production-ready container infrastructure on AWS using Terraform, including VPC, ALB, ECS Fargate cluster, ECR, and serverless Lambda functions for event-driven processing
- Implemented CI/CD pipeline with AWS CodePipeline automating Docker builds and rolling deployments; configured CloudWatch monitoring and SNS alerting, reducing compute costs ~70% with Fargate Spot and auto-scaling

Awards & Leadership

- **Star Performer Award:** KANsolv Technologies, Q2 2023 (Led 3 client migrations to microservices architecture ahead of schedule)
- **Code Quality Champion:** KANsolv Technologies, Q4 2023 (Drove adoption of automated testing and code review standards across teams)
- **1st Place:** UNT Cybersecurity Hackathon 2024 (Built ML-based phishing email classifier with Python and scikit-learn)
- **Team Lead:** Led 5-person team building intrusion detection system for UNT competition (2025)