

Ishwari Pillay

Full Stack Developer | DevOps | DevSecOps

TCS Research

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Summary: Dynamic professional with 4+ years of experience in Full Stack Development and DevOps roles, proficient in designing, developing, and deploying secure and scalable applications. Expertise in cloud platforms, CI/CD pipelines, containerization, and security practices. Strong problem-solving skills with a focus on integrating security into every stage of software development.

Technical Skills

- *Version Control:* Git, GitHub, GitLab
 - *Containerization:* Docker
 - *Orchestration:* Kubernetes
 - *Cloud Platforms:* AWS
 - *CI/CD:* Jenkins
 - *Scripting:* Bash Scripting
 - *Testing:* Pytest
 - *Monitoring:* Prometheus, Grafana
 - *Programming Languages:* Python, HTML/CSS, JavaScript/TypeScript
 - *Frameworks:* Angular, Django
 - *Databases:* MongoDB, PostgreSQL, Amazon RDS, Amazon S3
 - *Config & Infra:* Ansible, Terraform
 - *Kubernetes:* Secrets Management
 - *AWS:* AWS Secret Manager
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Key Skills

- Innovative problem solver with a passion for in-depth research
 - Proficient in embedding security practices at every phase of software development and operations, ensuring secure and efficient product lifecycles.
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Experience

Fullstack Developer, TCS Responsible AI Framework

(Oct. 2023-Present)

- Developed secure Angular UI components and Django APIs for applications interfacing with GenAI LLM models, focusing on enhancing user interaction and data security.
- Impact: Improved application responsiveness by 40% through optimized front-end architecture and efficient API design.

Backend Developer, TCS Cosmitto

(Oct. 2022 - Sep. 2023)

- Developed Python-based schedulers for the automated download and analysis of satellite imagery, integrating advanced geospatial data analysis.
- Employed PostgreSQL and custom algorithms for vulnerability assessments, significantly enhancing data processing and decision-making speed.

DevOps Engineer, TCS InTwin (TCS Digital Twin)

(Sep. 2019 - Oct. 2022)

- Spearheaded the development of InTwin, a comprehensive analytics platform for industrial plant analysis.
 - Utilized Angular and Java EE to craft interactive dashboards and REST API integrations.
 - Orchestrated Java microservices deployments on Azure Kubernetes Service (AKS) with Kubernetes secrets for secure configurations, contributing significantly to operational cost reductions and downtime minimization.
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Projects

Architecture Design for Payment App

- Designed and implemented AWS infrastructure including VPC, subnets, AWS WAF, Application Load Balancer, IAM roles, AWS CloudTrail, Bastion Host, Security Groups, AWS KMS, Amazon S3, Amazon Redshift, CloudWatch, SNS, and RDS.
- Impact: Enhanced application security and scalability, resulting in improved performance and reliability of payment processing systems. Implemented AWS Secret Manager for secure storage and access of sensitive credentials.

Learner Report Card (MERN Stack App)

- Deployed MERN stack application on EKS using Helm and Jenkins
- Developed CI/CD pipeline with Jenkins for automated builds and deployments
- Created Helm charts for Kubernetes deployments and services
- Impact: Accelerated development cycles by 30% through automated CI/CD processes, reducing time-to-market for new features and enhancements. Implemented Kubernetes secrets for secure management of sensitive data.

Develop, Deploy and Secure MERN App

- Deployed TravelMemory application on AWS with MongoDB backend, utilizing AWS Application Load Balancer and Cloudflare for DNS management with Hostinger
 - Impact: Scaled application to handle 1000+ concurrent users, ensuring seamless user experience and high availability.
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Education:

BBA/Computer Application (2016 – 2019)

Certifications:

Hero Vired Certificate Program in DevOps and Cloud Engineering (2024)
