

PROFESSIONAL EXPERIENCE

Optus InfoTech - Software Associate (AWS)	September 2021 - October 2024
<ul style="list-style-type: none">Automated AWS infrastructure tasks by scripting custom Python modules with Boto3 (e.g., snapshot rotation, tag enforcement, IAM cleanup), cutting manual ops time by approximately 12 hours/week and reducing access drift incidents by 90%.Built reusable Terraform modules using locals, for_each, and remote S3 backends to standardize VPC, EC2, and RDS deployments; decreased onboarding time for new environments by 60% and eliminated drift across dev/stage/prod.Executed lift-and-shift migrations using AWS Application Migration Service and custom cutover scripts, moving 9 business-critical apps from on-prem to EC2+RDS with zero downtime and \$42K/year cost savings.Provisioned EKS clusters with node auto-scaling, spot instance integration, and service mesh using AWS App Mesh; improved resource utilization by 30% and reduced latency for east-west service calls by 20%.Integrated full-stack observability using Prometheus exporters, Grafana dashboards with templated variables, and CloudWatch log filters; cut root cause analysis time from 2 hours to under 30 minutes during incidents.Diagnosed and fixed VPC subnet misrouting, stale route tables, and broken VPN tunnels using AWS Reachability Analyzer and traceroute mapping; restored site-to-site connectivity and improved cross-region resilience.Designed and enforced granular IAM policies using permission boundaries and resource conditions (aws:RequestTag, aws:TagKeys), reducing overprivileged access cases by 95% in quarterly audits.Built DevSecOps CI/CD pipelines using GitHub Actions, integrating SonarQube, with gated approvals and Snyk scans; reduced failed deployments by 70% and improved vulnerability detection by 3x.Boosted team velocity by integrating GitHub Copilot and Cursor AI into IDEs with pre-configured prompt templates and compliance-safe codegen rules; improved initial code scaffolding times by 50%.Engineered cross-region disaster recovery using S3 replication rules, Route 53 health checks, and Lambda-driven failover for RDS multi-AZ clusters; achieved 99.99% durability and sub-15-minute RPO.Automated hybrid fleet patching using AWS Systems Manager and custom PowerShell scripts for AD-integrated servers; increased patch compliance from 60% to 98% in under 2 quarters.Containerized legacy services using Docker Compose → Helm Charts, deployed via Argo CD with auto-sync and health checks enabled; eliminated 90% of manual deployment errors and rollback issues.Built and consumed REST APIs for microservices using Spring Boot (w/ actuator metrics) and API Gateway with throttling rules and custom domain mappings; handled 10K+ concurrent users with <150ms latency.Wrote and executed DDL/DML scripts to automate schema evolution in PostgreSQL using Liquibase; supported multi-region Cosmos DB with manual failover setup to meet cross-region compliance goals.Streamlined log pipeline ingestion using Kafka + Spark structured streaming and parsed logs to OpenSearch with field-level masking for PII; boosted observability and search efficiency by 45%.Enforced security best practices via automated policy-as-code scans (Terraform Sentinel), GuardDuty alert triaging, and CloudTrail insights; cut false-positive security alerts by 40%.	

SKILLS

Languages	Python, Java, JavaScript, TypeScript, Bash, Shell, Boto3, Go, SQL (PostgreSQL, MySQL), MongoDB
Frameworks	React, NextJS, NodeJS, ExpressJS, Spring Boot, Spring MVC, Django, Hibernate, NumPy, Pandas, TensorFlow
Cloud/DevOps	Linux, Docker, Kubernetes, Spark, AWS (Glue, EMR, Lambda, S3), Snowflake, Airflow, GitHub Actions, Terraform
AI/ML	Regression, Classification, Clustering, CNNs, RNNs, NLP, Model Tuning, Feature Engineering, Time Series

EDUCATION/CERTIFICATIONS/RESEARCH PAPERS

Florida State University (TLH, FL) - M.S (IT)	January 2023 - December 2024
Jawaharlal Nehru Technological University (HYD, IND) - B.Tech (IT)	July 2017 - August 2021
AWS SOLUTIONS ARCHITECT	October 2024
Student Placement Prediction Using Machine Learning	June 2021

PROJECTS

AI-Powered Image Recognition for Retail
<ul style="list-style-type: none">Built a real-time image recognition system using AWS Rekognition and S3; automated product tagging improved onboarding time and reduced manual labeling by over 60%.
Cost Optimization and Security on AWS & GitHub
<ul style="list-style-type: none">Automated AWS resource tracking across EC2, RDS, S3, IAM, and CloudFront using shell scripts; saved 30% in cloud costs and improved GitHub security audits.