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PRADIP KUMAR

About Me

I am an AWS-certified Cloud Engineer with expertise in cloud-native solutions, DevOps, SRE, and backend development. I specialize in event-driven architecture, automation, and applying AWS Well-Architected best practices to build secure, scalable, and high-performing systems. With a strong background in software development, I have helped organizations drive transformation by enhancing innovation, efficiency, and resilience.

Certifications

- AWS DevOps Engineer - Professional
- AWS Solutions Architect - Associate
- AWS Developer - Associate
- AWS Cloud Practitioner
- AWS AI Practitioner
- HashiCorp Terraform Associate

Key Skills

*Python | AWS | Ansible | Terraform | Linux | Bash | Git | GitHub Actions |
Perl | Typescript | Django | Docker | CDK | Agile*

Experience

Rackspace Australia

April 2025 – Till Now

Job title: Senior Software Engineer

Project: Content Services application modernisation

- **Problem:** Looking to migrate statement generating application to AWS as part of modernisation.
- **Solution:** Design and develop a serverless event driven solution that reads file from source S3 bucket and process (unzips/validates/create XMLs etc) them using lambda/step functions and deliver it to target OpenText archive solution using APIs.
- **Key Actions:**
 - Designed EDA solution.
 - Built infrastructure using CloudFormation (Lambda, Step functions, API Gateway, S3, Event bridge, IAM roles, Secrets Manager, MSK).
 - Write GitHub Actions workflows/pipelines for CI/CD.
 - Develop features using typescript/node.js
 - Ensured security through different environments.
 - Ensuring event driven architecture.
 - Publish notification to MSK topics using API endpoint.
 - Integrate with Kafka for cross team data consumption (only POC)
 - Integrate observability with Grafana/Prometheus.
- **Results:**
 - Serverless architecture.
 - Generic File ingestion solution
 - Streamlined deployment and management with Infrastructure-as-Code (CloudFormation).
- **Skills:** Typescript, Lambda, Step Functions, S3, Event Bridge, API Gateway, IAM, CloudFormation, GitHub Actions.

Cevo Australia, an AWS Consulting Firm

January 2022 – March 2025

Job title: **Senior Cloud Consultant**

Project 1: **GitHub Self-Hosted Runner Solution**

- **Problem:** Inefficiencies in CI/CD workflows due to a static GitHub self-hosted runner setup lacking scalability and cost-effectiveness.
- **Solution:** Designed and deployed a highly available, ephemeral, and isolated GitHub self-hosted runner system using ECS Fargate, integrated with GitHub Actions via API Gateway and Lambda. Deployed infrastructure using Infrastructure as Code (IaC) using Terraform.
- **Key Actions:**
 - Built infrastructure using Terraform (API Gateway, Lambda, ECS Fargate, IAM roles, OIDC, Parameter Store).
 - Implemented dynamic scaling for on-demand runner provisioning.

- Ensured security through isolated environments and OIDC integration.
- **Results:**
 - Improved CI/CD workflow performance.
 - Reduced idle resources and operational overhead.
 - Streamlined deployment and management with Infrastructure-as-Code (Terraform).
 - Enhanced compliance with isolated environments and OIDC.
- **Skills:** GitHub Actions, Terraform, ECS Fargate, Lambda, API Gateway, OIDC, IAM

Project 2: FinOps AWS Cost Optimization

- **Problem:** Escalating AWS costs due to underutilized and over-provisioned resources.
- **Solution:** Implemented automation, rightsizing, and governance to achieve significant monthly cost savings.
- **Key Actions:**
 - Cost Optimization Strategy: Developed a comprehensive strategy to rightsize AWS infrastructure using automation tools.
 - Aggressive Cost Savings: Successfully achieved aggressive targets, reducing AWS costs by several million USD annually.
 - Automation for Efficiency: Implemented automation for infrastructure rightsizing, streamlining cost optimization processes.
 - Sustainable Cost Management: Established automated infrastructure monitoring to ensure ongoing cost savings and future sustainability.
 - Cloudability Integration: Successfully integrated AMP's AWS environment with Apptio Cloudability, enabling advanced cost monitoring, automated rightsizing, and insightful reporting for clear communication of cost optimization efforts
- **Results:**
 - Achieved \$700K monthly savings.
 - Established sustainable cost control through automation.
 - Enhanced governance with SCPs and budget alerts.
 - Improved transparency with real-time cost reporting.
- **Skills:** Python Programming, Amazon Web Services (AWS), Lambda, Cost Explorer, Cost and Usage Reports (CUR), EventBridge, GitHub Actions, Apptio Cloudability

Project 3: MSATS Cloud Migration & Modernization Project

- **Problem:** Legacy on-premises MSATS system faced performance bottlenecks, high costs, and scalability limitations.
- **Solution:** Migrated the system to AWS with a focus on scalability, security, and cost efficiency.
- **Key Actions:**
 - Transitioned MuleSoft integrations and workloads to AWS (ECS Fargate, SQS, Lambda, S3).
 - Integrated Lambda with SQS and asynchronous S3 event driven programming.
 - Serverless programming and adaptation to microservices during modernizing the application.
 - Designed a secure API solution integrating Azure for secrets management.
 - Enhanced observability using New Relic.
 - Achieved >85% test coverage with automated unit tests.
 - Built a CDR Data Pipeline using ECS Fargate and Airflow DAGs.
 - Deployed resources using Terraform and Azure DevOps.
- **Results:**
 - Achieved significant cost savings with AWS's pay-as-you-go model.
 - Improved system scalability and stability.
 - Integrated multi-cloud capabilities (AWS and Azure).
 - Enhanced monitoring with New Relic.
 - Enabled structured data storage in S3 for analytics readiness.
- **Skills:** Python programming, ECS Fargate, Lambda, S3, SQS, Airflow, Azure DevOps

Firstwave Cloud Solutions - Australia

June 2019 – January 2022

Job title: **Senior software engineer**

Project: **SRE-Focused Automatic Deployment of Cloud Security Product**

- Backend API development and integration.
- Designed and implemented CI/CD pipelines for automated code deployment.
- Built and maintained tools for monitoring, alerting, automation, and incident response.

- Collaborated with engineering and product teams to define service ownership models.
- Led incident response efforts and conducted root cause analysis.
- Mentored other Developers and SREs on best practices for system reliability and automation
- Developed the entire configuration management using Ansible.
- Skills: Python, FastApi, Terraform, Ansible, AWS, Jenkins

Macquarie Group - Australia

August 2018 – May 2019

Job title: **Network (Python) Developer**

- Developed and maintained a web-based portal for network infrastructure management.
- Developed & designed end-to-end self-service systems for customers to configure DNS, load balancing aliases, and firewall rules.
- Automation of day-to-day activities, device builds & maintenance, auditing & alerting, elevated access requests, credential rotations, incident and change request artifacts.
- Automated routine tasks such as creating, updating, and managing network devices.
- Integrated the portal with legacy network systems and provided network health visualization.
- Skills: Python, Perl, PHP, Django, MySQL, Bamboo, Vue.js

Bristlecone (SAP SuccessFactors) - India

January 2016 – August 2018

Job title: **Associate Principal Consultant**

- Automated monitoring and infrastructure integration for SAP SuccessFactors HR.
- Streamlined tool integration and ensured business continuity through automation.
- Monitor and support different monitoring tools used across the organisation for application monitoring purpose like Splunk, Zabbix, ELK stack, Nagios, Solarwinds, Pingdom etc.
- Customer issues troubleshooting and support
- Skills: Python, Bash, Zabbix, Ansible, ELK, Splunk

Goldman Sachs - India

December 2009 – January 2016

Job title: **Senior Technology Analyst**

- Developed a Database as a Service (DBaaS) platform for self-service database management.
- Automated database tasks, including queries, syncing, and backups.
- Backend Python and Perl APIs development and integration.
- Multiple DBs were handled in this role likes of DB2, Oracle, MSSQL, Sybase
- Skills: Python, Perl, Bash, RDS(DB2, Sybase, Oracle, MSSQL)

Symphony Services (Now Harman) – India

Nov 2006 – Dec 2009

Job title: **Software Engineer**

- Redesigned and automated the daily fact and dimension loading process into a data warehouse.
- Developed a parallel processing solution for faster report generation and business decision-making.
- Database used was Oracle for data storage.
- Skills: Perl, Bash, Informatica

Visa status

Australian Citizen

Education

Bachelor of Engineering (Computer Science and Engineering)
Jorhat Engineering College, India

Reference

Can be provided upon request.