Pradeep Mathew

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DevOps Engineer | Cloud Engineer | Platform Squad

CAREER PROFILE

An IT professional based in Melbourne, Australia, with diverse experience in banking, consulting, insurance, retail, and entertainment industries in DevOps and Cloud Platform engineering.

I thrive in Systems Engineering and Administration, Automation and Configuration Management, Cloud Services, and Infrastructure as Code (IaC), Monitoring, Logging, and Observability and my strengths include clear communicator, analytical thinker and have extensive experience working to Agile methodologies.

I bring over 5 years of robust experience in cloud engineering and automation, primarily focusing on AWS and Azure-based workloads. Australian Citizen.

IT SKILLS

Continuous Integration and Continuous Delivery (CI/CD) | Git | Kubernetes | Bash | Buildkite | Codepipeline | SQL | Docker Products | Jenkins | Azure DevOps | Ansible | DevSecOps |Cloud Cost Optimization| Microservices | Microsoft Azure | Python | Linux | Terraform | ArgoCD | Amazon Web Services (AWS) | Robotic Process Automation (RPA) | Release Management | Jira & Confluence | Kafka | Computer Vision Application Management

PROFESSIONAL EXPERIENCE

Coles
Senior DevOps Consultant   **Feb 2024 - Current**
In this role I am working as part of Data & Innovation team to deploy the 'Intelligent Edge Backbone' (IEB) solution computer vision micro services application as it scales to hundreds of stores across Australia.

Key responsibilities:
- Led the plan, build, test and deployment on Kubernetes cluster, deploy micro services and applications, and monitor and troubleshoot issues.
- Specialized in areas like Azure DevOps, Kubernetes, YAML, Kustomize, Git, Docker, SonarQube & API.
- Additionally, play a crucial role in provisioning and maintaining cloud resources via IaC, monitoring dashboards, and supporting edge devices in the digital infrastructure landscape.
- Implementation design and build of ArgoCD to the CICD pipeline.
- Deploy and support microservices application built on REST and Python on Azure Webapps and orchestrate the containerised application stack on Kubernetes clusters.
- Technical lead and support of Data and Innovation team repositories for security vulnerability scan and remediation.
- Reporting to Engineering Manager and mentor for three platform engineers based in other cities.

Key achievements
- Improved Infrastructure configuration management using Ansible Automation Platform.
- Designed and documented a deployment framework for Microservices application deployment and release
- Designed and implemented monitoring and alerting solution using Datadog for Kubernetes workloads.
- Quarterly award for the successful rollout of Bottom of Trolley solution to 500 Coles stores across Australia.

Tabcorp
DevOps Automation Engineer-CI/CD   Dec 2021 – Feb 2024

In this role I worked as part of Digital Foundation COE and led the deployment and management of a Java based real time transaction monitoring microservices application hosted on Kubernetes for Spring Racing Carnival.

Key Responsibilities
- Developed automation code for building CI/CD pipelines, Kubernetes clusters, and cloud infrastructure, embracing Agile methodologies.
- Applied Terraform & CloudFormation for AWS infrastructure provisioning.
- Templatized various AWS services like KMS, S3, DynamoDB, EC2, VPC, Lambda functions, ECR, Eventbridge, SNS, Cloudwatch, using Terraform and CloudFormation as IaC.
- Integrated and managed SonarQube, Docker images, and GitHub for version control.
- Managed Release and change for Automation & Engineering BU.
- Integrated and managed APM applications (New Relic, Splunk) for robust monitoring.
- Technical mentoring for offshore based team and sprint planning.
- Translated functional requirements into technical designs, process definition documentations and automated those leveraging RPA-UiPath.

Key Achievements
- Implemented tagging standards for AWS based resources.
- Contributed to Java, Golang, and Python development, adept at debugging code-level issues.
- Conducted thorough code reviews and sought DevSecOps opportunities for cost optimization in infrastructure and application code bases using Cloudconformity, Crowdstrike, Aqua, Snyk, and Billing dashboards.
- Automated HR recruitment workflow via UiPath Automation Suite as part of Robotic Process Automation business initiative. Deployed 5 Bot solutions which returned savings of 3800 human work hours per year.

Coles   **June 2018 – Nov 2021**
Release Operations Environment Analyst
In this role I managed Release and Environments of Insights data warehousing projects based on Snowflake, PowerBI, Datafactory, ETL and Oracle.

Key Responsibilities
- Collaborate with various projects for weekly twice code progression to production environments.
- Point of contact for security base line patching – scheduling and validations.
- Implemented ways of working leveraging JIRA and Confluence for Data Insights team.
- Implemented CI/CD pipelines using Jenkins and Azure DevOps, integrating Snowflake and PowerBI components seamlessly.
- Built and managed cloud resources on Azure Datafactory, Azure Pipelines, Azure Key vault, Azure AD, Storage and AKS.
- Developed automation scripts in Bash, Python, and PowerShell.

Key achievements
- Managed on premise data warehousing platforms and involved in migrating huge databases to Snowflake.
- Successfully migrated Customer Information Warehouse (CIW) to Snowflake and dashboarding using PowerBI while worked with various stakeholders and integration partners.
- Defined and executed release strategy for Data team for moving from 1 release per month to 2 releases per week.
- Setup of offshore deployment squad and mentoring for new release deployment process.

IAG   **Feb 2014 – May 2018**
Environment Analyst

Key responsibilities
- Managed environment and code release deployments using build and automation tools.
- Set up lab environments for diverse projects, encompassing estimation, system design, development, and implementation.
- SME of environment management team for Wesfarmers – IAG Systems integration, Coles – IAG systems integration, OpenText Capture systems and Adlib Application upgrade projects.
- Contributed to daily monitoring, maintenance, and patching of non-production server environments, and worked on cloud-based pipelines for document management solutions at IAG.

Key achievements
- Led infrastructure and application upgrade projects, coordinating with vendors.
- Successfully completed projects like Wesfarmers – IAG Systems integration, Coles – IAG systems integration, OpenText Capture systems and Adlib Application upgrade projects in the capacity of SME of environment management team.

Capgemini   **Sept 2012 – Jan 2014**
Senior Consultant

Key responsibilities
- Participated in regular, fast-track, and emergency releases, QA testing, business continuity testing, and vendor patch management.
- Collaborated closely with diverse teams, including testing, infrastructure, development, and release management.
- Served as the main point of contact for technical support issues related to servers, databases, debugging, and configurations within the Global Payments Applications team.
- Effectively managed and resolved environmental support issues, addressing root causes and defects.

Key achievements
- One of the first team member consultants for ANZ Banking Project after the transition to Capgemini Services and Engineering team.
- Accomplished projects, including IBM Master Data Management implementation, Windows system upgrades, and a hardware refresh project for the Voucher Image 'Storage' System (Australia Post)

ANZ   **May 2006 – Aug 2012**
Technical Analyst
Worked as Test Environment management analyst across the major ANZ projects.

Key responsibilities
- Part of Enterprise Applications team supported Peoplesoft, Clarity, Internal Finance Systems.
- Global payments systems integration with PRIME regulatory systems
- Microsoft Reporting Services Application Upgrade Program
- CA Clarity v8 Application Upgrade/ PAYPLUS-FX online integration Program/ Australia Post Forward Clearing Project
- Data Integrator Program (Royal Bank of Singapore)

Key achievements
- Global Information Security team offshore setup and coordination
- SME of Global Information Security office for Identity and User Management COE.
- Setup infrastructure lab at ANZ East Richmond office for Australia Post forward clearing project which comprises of Window 2008 servers/Fuji Xerox cheque clearing system/ Network cabling etc

EDUCATION

Bachelor of Engineering – Major – Computer Science – MS University

CERTIFICATIONS

- AWS Solution Architect Associate
- AWS Cloud Practitioner
- Azure DevOps Engineer Expert
- Azure Administrator
- Azure Fundamentals
- HashiCorp Certified: Terraform Associate
- GitOps Fundamentals
- ITIL 3&4 Foundation