

Pritish Karmakar

Cloud Operations Engineer

Cloud Operations Engineer with 5+ years of experience in cloud operations, infrastructure, and automation. Skilled in Azure, AWS, Terraform, security, networking and scripting, with hands-on experience building cloud data pipelines, infrastructure automation, and AI-assisted data systems. Passionate about designing scalable, reliable cloud architectures and modern data platforms.

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WORK EXPERIENCE

Cloud Operations Engineer Schneider Electric

10/2023 - 04/2026 Gurgaon, India

- Integrated and managed internal applications on Azure App Service in a hybrid infrastructure, maintaining ~99.8% availability for business critical payment workflows.
- Developed and maintained Azure Functions resources for server-less integration workflows, event-driven processing and enterprise applications using Azure Logic Apps, Azure Functions, and Service Bus.
- Configured APIM policies for routing, throttling, transformation, and API security management.
- Implemented CI/CD pipelines on Azure DevOps, designed YAML files to streamline code publishing and deployments, ensuring faster and reliable releases.
- Developed infrastructure and configuration automation workflows using Terraform and Ansible, to instantiate scalable testing environments.
- Primary administrator for access management, implementing RBAC strategies and identity governance to enforce Zero Trust policy across SaaS and Azure resources.
- Monitored and troubleshoot cloud infrastructure and application workflows using cloud native monitoring tools and alerts.
- Collaborated with development teams to enable platform capabilities, streamline deployments, and improve developer productivity.

System Engineer Tata Consultancy Services

05/2022 - 10/2023 Kolkata, India

- Led performance testing and validation on Oracle database maintaining zero downtime on application updates.
- Optimized SQL queries and database operations, reducing data retrieval latency, and improving application performance by 15%.
- Collaborated with cross-functional teams to identify process gaps, driving improvement in workflow efficiency.
- Performed database maintenance and cleanup operations to maintain optimized testing environments.
- Supported Agile delivery, defect tracking, and documentation using JIRA.

Process Associate Amazon

09/2020 - 03/2022 Bengaluru, India

- Monitored and analyzed pricing data for 1,500+ products, supporting large-scale analytics operations.
- Conducted quality assurance and data validation checks to ensure SLA adherence and data accuracy.
- Maintained competitive pricing benchmarks, contributing to top 1% market positioning.
- Supported high-volume operational workflows with a focus on data integrity and process reliability.

SKILLS

Microsoft Azure Amazon Web Services (AWS)
Azure App Service Azure DevOps Terraform
Azure Logic Apps Python Azure APIM
ETL Development CI/CD Pipelines Entra ID / IAM
Dynamics 365 (ERP) Docker Kubernetes
Web Application Firewall (WAF) Linux OS
nftables Btrfs volumes Azure Monitor Bash
FastAPI n8n OAuth/JWT Azure Functions

Projects

Personal Cloud Server

- Engineered and developed a **Google Drive** like cloud infrastructure on my personal laptop.
- Deployed **containerized** services using **Docker (nginx, nextcloud)**, implemented **firewall rules** using **nftables**, created secure connection using **Tailscale VPN**.
- Helped me gain hands-on experience **Linux administration, networking, security**, and **infrastructure reliability** on a **Kernel** level.

CI/CD pipeline for my website

- Built and deployed my portfolio website using **Azure Static Web Apps** with custom domain integration.
- Implemented CI/CD pipelines using **Azure DevOps** for seamless code push.
- Integrate monitoring and analytics using **Azure Monitor** to track performance, availability, and user traffic.

Education

Bachelor of Technology -

Mechanical Engineering

Dr. B. C. Roy Engineering College

Durgapur, India

Certifications

Microsoft Certified : AzureAdministratorAssociate
[AZ-104]

Google AI Professional Certificate

AWS - Solutions Architect Associate - In Progress