

Arnav Ranjan

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PROFESSIONAL SUMMARY

Experienced DevOps Engineer with 3+ years of proven success designing and automating scalable, secure, and cost-efficient cloud infrastructure. Specialized in Azure (primary) and AWS (secondary) environments, with deep expertise in Terraform, Bicep, Kubernetes (AKS), and CI/CD (Azure DevOps, GitHub Actions). Adept at driving DevSecOps, observability (Grafana, Prometheus, KQL), and production-grade cloud migrations. Experienced in direct customer interactions, live troubleshooting, and incident response. Passionate about working in high-ownership, fast-paced teams.

CERTIFICATIONS

- Azure Administrator Associate ([AZ-104](#))
- Azure DevOps Expert ([AZ-400](#))
- Terraform Associate ([003](#))

PROFESSIONAL EXPERIENCE

DevOps Engineer II

Synoptek | July 2025 – Present

DevSecOps & Observability

- Developed Grafana dashboards integrated with Prometheus for proactive monitoring and real-time alerts.
- Mentored teams in advanced KQL and PromQL alerting, automating solutions with PowerShell scripts.

Cloud Infrastructure (Azure & AWS)

- Managed extensive multi-cloud environments with Terraform, Bicep, and Azure DevOps.
- Led Azure-to-AWS migrations, from deploying AKS cluster with ACR and azure devops pipelines and managing multiple microservices to ECS Fargate clusters, optimized ALBs, Redis caches, and EFS volumes as and when needed to mount storage for ECS startup.
- Implemented cloud cost optimization using CloudWatch and Azure policy automation.
- Used Python scripts to automate multiple things within the terraform modules for example - snapshot retention and cross-cloud DR tasks during AWS-to-Azure migration.
- Collaborated directly with stakeholders and customer teams to resolve escalated infrastructure issues across AKS environments, ensuring rapid root cause analysis and minimal downtime.

- As part of a US-based service company, I've regularly interfaced with customers on live troubleshooting calls. I take ownership in high-pressure situations—whether the issue lies on our side or not—always prioritizing resolution and transparency. My focus is on protecting team cohesion, maintaining SLAs, and representing a unified front with our clients, not playing the blame game.

Security & Compliance

- Enhanced security through RBAC, NSGs, and policies enforcing zero public access.
- Contributed extensively to Azure MSP audit and compliance documentation.

CI/CD & Pipeline Automation

- Transitioned classic Azure DevOps pipelines to YAML-based workflows, improving readability and scalability.
- Integrated SonarQube for static code analysis to maintain high code quality.
- Managed Docker image versioning and lifecycle optimization.

Cloud Engineer I

Synoptek | Aug 2023 – July 2025

CI/CD & Infrastructure as Code (IaC)

- Led migration from Terraform to Azure Bicep with reusable modules and streamlined pipelines.
- Delivered comprehensive Azure infrastructure (AKS, VNets, Functions) across environments.

Incident Response & Reliability

- Rapidly resolved critical incidents (P1/P2) through detailed log and metric analysis.
- Enhanced pipeline reliability by implementing validation gates and documentation.

AWS Project Implementation

- Deployed biometric platforms using AWS ECS Fargate, Lambda, EFS, and GitHub Actions.

Secure API & Endpoint Management

- Implemented Azure Relay solutions to securely shield internal endpoints.
- Collaborated with application and security teams for compliant external communication.

Code Quality & Automation

- Integrated code linting tools enforcing IaC best practices.
- Mentored teams on YAML-based pipelines and automated workflow adoption.

Systems Engineer I

Synoptek | Aug 2022 – July 2023

- Ensured compliance with SLAs, security benchmarks, and cost governance.
- Implemented secure API exposure using Azure Relay and API Management.
- Authored detailed infrastructure documentation for streamlined operations.

- Provided operational support for networking components, including VPN gateways and virtual networks.
- Assisted in Azure MSP audits, validating resource configurations and compliance with Microsoft standards.
- Troubleshoot and resolved high-volume support tickets, reducing response times and improving customer satisfaction.

Cloud Intern

Synoptek | Jan 2022 – July 2022

- Assisted in cloud cost optimization and resource management.
- Supported SLA adherence through ticket triage and proactive issue resolution.
- Gained hands-on experience with real-world billing analysis and resource allocation tools.
- Developed and maintained infrastructure documentation, aiding team efficiency.
- Collaborated with senior engineers in troubleshooting infrastructure and application issues, enhancing system stability.
- Contributed to process improvements, increasing operational productivity.

EDUCATION

- **B.Tech in Computer Science (DevOps Specialization) University of Petroleum and Energy Studies**
(2018 – 2022)
- **Key Coursework:** DevOps Practices, Agile Methodologies, CI/CD Tools (Jenkins, Git, Docker, Maven)

TECHNICAL SKILLS

- **Cloud Platforms:** Azure, AWS
- **Infrastructure as Code:** Terraform, Azure Bicep
- **Containers & Orchestration:** Kubernetes, Azure AKS, AWS ECS Fargate
- **CI/CD Tools:** Azure DevOps Pipelines, GitHub Actions
- **Monitoring & Observability:** Grafana, Prometheus, CloudWatch, KQL, PromQL
- **Security & Compliance:** RBAC, NSGs, CIS Benchmarks, Azure Policies
- **Scripting Languages:** PowerShell, Bash
- **Storage & Cache Solutions:** EFS, Redis

ADDITIONAL HIGHLIGHTS

- Extensive experience in debugging, automation, and real-world Azure DevOps best practices.
- Skilled in incident management, dashboard creation, and implementing self-healing infrastructures.
- Rapid career progression from Cloud Intern to DevOps Engineer II within three years.