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NATAN BAREL

Cloud And DevOps Engineer | (B.Sc.) Computer Science

PROFESSIONAL SUMMARY

Cloud Operations Engineer with 6+ years of experience spanning software engineering, DevOps, and AWS cloud infrastructure management.

Originally trained as a software engineer, I bring a development-first mindset to cloud operations — enabling scalable automation, resilient system design, and seamless collaboration between teams.

Proficient in AWS services, infrastructure as code (Terraform, CloudFormation), CI/CD pipelines, and observability tooling such as CloudWatch and Datadog.

Driven by operational excellence, cost optimization, and security best practices, I specialize in building and managing robust cloud environments that support both development agility and production stability.

WORK HISTORY

CLOUD OPERATIONS AND DEVOPS ENGINEER 04/2024 to Current
CloudZone, Tel Aviv, Israel

- Operated and maintained **AWS cloud infrastructure**, ensuring availability, scalability, and performance across multiple accounts and regions.
- Worked with **Kubernetes (K8s)** and **Amazon EKS**, deploying and managing containerized workloads to improve scalability, reliability, and operational efficiency across environments.
- Automated provisioning, deployment, and configuration of AWS services using **CloudFormation**, **Terraform**, and AWS CLI.
- Managed **EC2**, **S3**, **RDS**, **Lambda**, **CloudFront**, **VPC**, and **IAM** configurations to support production and development environments.
- Implemented and maintained monitoring solutions using **Amazon CloudWatch**, **CloudTrail**, and third-party integrations like **Datadog**.
- Handled incident management, troubleshooting AWS services issues, and performing **root cause analysis** to prevent recurrence.
- Developed and enforced AWS security best practices including **IAM policies**, **encryption (KMS)**, **VPC** security groups, and resource access control.

SENIOR SOFTWARE ENGINEER 01/2021 to 05/2023
Driivz, Hod HaSharon, Israel

- Developed a scalable, web-based enterprise dashboard application from scratch using **Angular**, **TypeScript**, **NGRX**, **RXJS**, and **LESS**, integrating multiple 3rd-party libraries for enhanced functionality.
- Designed and implemented core SaaS features based on **microservices architecture**, focusing on scalability, resilience, and performance optimization.
- Led efforts to build and maintain **production-grade CI/CD pipelines** using **Git**, **Webpack**, **Jenkins**, **Karma**, and **Jasmine**, ensuring fast, reliable, and automated deployments.
- Introduced **Docker** containerization to streamline development, testing, and production environments, significantly reducing environment drift and deployment issues.

- Supported Kubernetes (**K8s**) deployments on **AWS** and on-premise clusters, contributing to operational excellence and improving system scalability and reliability.
- Created and maintained advanced **build automation systems** using **Gulp**, integrating static analysis tools like **ESLint** to enforce code quality and consistency.
- Collaborated closely with **DevOps and cloud** teams to optimize **AWS cloud resources**, enhance deployment strategies, and implement **Infrastructure-as-Code best practices**.
- Championed initiatives for engineering excellence by continuously improving development workflows, build systems, deployment automation, and monitoring practices.

FULL STACK DEVELOPER 01/2019 to 01/2021
NGSOFT, Petaḥ Tiqwa, Israel

- Built large-scale, high-volume web applications from the ground up using **Angular (v7–v10)**, focusing on scalability, maintainability, and performance under heavy traffic conditions.
- Developed secure, scalable **REST APIs** using **Node.js**, **TypeScript**, and **MongoDB**, applying security best practices and ensuring operational resilience.
- Designed, developed, tested, and deployed reusable application components with a focus on **high availability**, **cloud scalability**, and **fault tolerance**.
- Collaborated closely with leadership, product managers, UX designers, and architects to prioritize technical solutions aligned with business goals and operational requirements.
- Integrated cloud-native practices into application design, including API security, scalable database management, and resilient architecture patterns.
- Maintained and optimized existing codebases, handled advanced debugging, and tackled complex architecture and infrastructure challenges to meet evolving customer needs.
- Improved deployment efficiency and production reliability by introducing best practices around **CI/CD pipelines**, automated testing, and **cloud infrastructure optimization**.

EDUCATION

Ariel University, Ariel, Israel
Bachelor of Science, Computer Science And Mathematics, 2017

CERTIFICATIONS

AWS Certified Solutions Architect – Associate, 06/2024

AWS Certified SysOps Administrator – Associate, 09/2024

AWS Certified AI Practitioner, 04/2025

SKILLS

Cloud infrastructure management	Infrastructure as Code
Container orchestration	Python scripting
Bash shell scripting	Monitoring and alerting
Cloud computing	DevOps principles

AWS solutions architect

Cloud architecture design

Troubleshooting