Soumik Nandi

DevOps Engineer (Java Background)

+91 90384 39954 | official.soumik.nandi@gmail.com | Kolkata, India

www.linkedin.com/in/soumiknandi | soumiknandi.github.io

Profile

DevOps Engineer with 4+ years of experience designing and automating CI/CD pipelines, deploying cloud-native applications, and managing Linux based production environments. Strong expertise in AWS, Docker, Kubernetes, Jenkins, and Infrastructure as Code, with a solid Java/Spring background. Focused on building scalable, reliable, and production ready systems while optimizing release workflows for high performing teams.

Skills

- **Cloud:** AWS (EC2, S3, IAM, RDS, Lambda, CloudWatch)

- **DevOps:** Docker, Kubernetes, Terraform, Ansible, Helm, ArgoCD

- **CI/CD and Build Tools:** Jenkins, GitHub Actions, Spinnaker, Nexus, Maven

- **Programming and Scripting:** Java (Spring Boot, Spring Batch), Python, Bash

- **Monitoring and Tools:** Prometheus, Grafana, ELK Stack, Git, Postman

- **Practices:** Infrastructure as Code, Microservices, Agile/Scrum

Professional Experience

Software Engineer Senior Analyst, *Accenture*   **Kolkata, India** *June 2025 – Present*
Software Engineer Analyst, *Accenture*   **Kolkata, India** *September 2022 – June 2025*
Project – Relationship Data Service and Cloud Deployment   *2025 – Present*

- Migrated multiple Spring-based applications from 3.2 to 3.4, upgraded Java to 21, and migrated to EKS and ECS using Jenkins, Spinnaker.

- Developed a Spring API and MQ based loan processing system, integrating 2 external services and persisting data in Cassandra for scalable, reliable processing.

- Designed and implemented Jenkins CI/CD pipelines integrated with Spinnaker for automated deployments to AWS production and non-production environments.

Project – Automated Loan Data Deletion using Spring Batch   *2024 - 2025*

- Developed and delivered Spring batch applications which automate data deletion from Oracle and Cassandra database based on loan data logic.

- Improved performance using chunk processing, pagination and multi-threading to delete around 30-35 million records from Oracle and Cassandra within 4 hours in production.

- Performed UAT and performance testing by deleting 40 million records and its corresponding child tables.

- Implemented E-Mail functionality in each batch deletion application to send run summaries with current and previous deletion counts.

- Implemented CI/CD pipeline using Jenkins to automate build, test and deployment to AWS ECS clusters and provisioned using Terraform.

Project – Spring Upgrade and AWS Migration   *2023 – 2024*

- Migrated 10+ Spring-based applications from private cloud to AWS EKS and ECS.

- Designed and implemented the CI/CD pipeline using Jenkins for build/test and Spinnaker for deployment to AWS EKS and ECS clusters and provisioned using Terraform.

Project – Application Relocation from Legacy Data Center *2022 – 2023*

- Migrated 30+ applications, Oracle and Cassandra database from legacy to new data center, ensuring zero business disruption and smooth transitions.
- Installed Java, Jenkins, and other essential tools on new Linux hosts in the new data center, performing post-installation verification and configuration.

Software Engineer Associate, *Accenture*   **Kolkata, India** *June 2021 – September 2022*

Project – Browser Modernization and Java Upgrade *2021 – 2022*

- Upgraded multiple applications from Java 8 to Java 11 and 17, tested and deployed them to lower and production environments.
- Provisioned new Linux hosts, installed all essential software, and successfully migrated various applications within the non-production environment.

Certifications

- AWS Certified Solutions Architect – Associate (July 2024)
- GitHub Copilot (December 2025)

Personal Projects

Freestyle CICD Pipeline – *Jenkins, Docker, Ansible, Terraform*

- Developed a freestyle CI/CD pipeline using Jenkins, Docker, Ansible and Terraform.
- Integrated Github web hook to trigger pipeline on push event.

FastAPI TODO App – *Python, PostgreSQL, Docker, Kubernetes, Helm, Kustomize, ArgoCD, GitHub Actions*

- Developed a RESTful API using Python FastAPI with PostgreSQL as the database.
- Containerized the service with Docker and created Kubernetes deployment manifests with Helm charts and Kustomize overlays for flexible environment management.
- Built a CI/CD pipeline with GitHub Actions to push images to Docker Hub.

AWS Serverless Bulk Mailer – *AWS Lambda (Python), S3, and SES*

- Built a serverless application using AWS Lambda (Python), which will send mail to multiple recipients.
- Configured S3 PUT event trigger that will invoke the Lambda function. The function will parse the csv file extract data and send emails via SES.

Containerized Application Deployment – *AWS EKS, Terraform and Python*

- Provisioned an EKS cluster with Terraform for Infrastructure as Code (IaC).
- Deployed a containerized Python application to Kubernetes on AWS EKS.

Database Migration On-Prem To RDS – *RDS, DMS, Percona and S3*

- Migrated MySQL database from on-premises to RDS using SQL dump and Percona XtraBackup via S3.
- Migrated from EC2 to RDS using DMS.

Education

Master of Computer Application, *Narula Institute of Technology*   **Kolkata, India** *2018 – 2021*

- **Project** : Fence Installation Device – A patented project built with Python and JavaScript. supports IoT and Android device.

Bachelor of Computer Application, *Narula Institute of Technology*   **Kolkata, India** *2015 – 2018*

- **Project** : Mei Chat – A chat-based Android application built with React Native, featuring real-time messaging.