

# Aniket Pathak

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## EDUCATION

### University of Freiburg

MSc. Computer Science — holding valid Student-VISA

Freiburg, Germany

Expected: December 2027

### Kalinga Institute of Industrial Technology

B.Tech. Computer Science Engineering GPA: 1.4

Bhubaneswar, India

September 2020 - September 2024

## EXPERIENCE

### University of Freiburg

#### Research Assistant - IT

Freiburg, Germany

February 2026 - Present

- Developed **Shell** and **Python** automation scripts that **reduced data migration time by 70%** across 15+ Linux research workstations.
- Managed critical research infrastructure supporting **20+** researchers by managing VMs and performing system upgrades, **achieving 99% up-time**.

### Nokia Solutions and Networks

#### Software Developer

Bengaluru, India

August 2023 - September 2025

- Engineered full-stack features for enterprise network management platform serving **15+ telecom clients** (Vodafone, TCL, Singtel) using **Java Spring Boot microservices**, **React.js**, and **RESTful APIs**, delivering real-time monitoring for critical network infrastructure.
- Designed and Developed internal **reusable React component library** with **TypeScript** and **Storybook**, cutting frontend development time by **60%** across **8+ modules** while optimizing **SQL queries** to reduce API response times by **33%** for high-traffic endpoints.
- Orchestrated **CI/CD pipelines** using **Jenkins** and **Azure DevOps** for **Kubernetes (AKS)** deployments with **ArgoCD GitOps**, implementing automated testing (**JUnit**, **Jest**) that accelerated release cycles by **40%**.
- Established observability stack with **Prometheus**, **Grafana**, and **ELK** for centralized logging and monitoring, improving incident response time by **25%** while resolving **20+ production bugs** through root cause analysis.

## PROJECTS

### Azure CI/CD for Microservices Voting Application

[Azure DevOps, Kubernetes, ArgoCD]

- Developed and documented end-to-end **CI/CD pipeline** on **Azure DevOps** for voting application with **3 microservices** (Python, .NET, Node.js), implementing multi-stage YAML pipelines with automated **Shell scripts** to update Kubernetes manifests and push images to **Azure Container Registry**.
- Deployed on **Azure Kubernetes Service (AKS)** with **ArgoCD GitOps**, achieving **180-second** automated deployments from code commit and **100%** elimination of manual deployment intervention through secure authentication and infrastructure-as-code workflows.

### Flexboard: React Component Library for Re-sizable Sidebars

[React, TypeScript, CI/CD]

- Engineered production-ready sidebar component library using **TypeScript** and object-oriented design principles, implementing **GitHub Actions CI/CD** with automated testing (**Jest**) and code quality checks for seamless releases.
- Achieved **250+ GitHub stars** and **40+ weekly NPM** downloads through intuitive API design and comprehensive documentation, demonstrating strong open-source community adoption.

## SKILLS

- Programming Languages:** Java | Python | Go | JavaScript | TypeScript | C++ | SQL | Shell | YAML
- Frameworks & Tools:** Spring Boot | React.js | Next.js | Flask | FastAPI | Node.js | REST | Kafka | GraphQL
- DevOps:** Linux | Docker | Kubernetes | Azure | GCP | Git | CI/CD | AWS | Jenkins | Ansible | GitLab | Prometheus | Grafana | ArgoCD | GitHub Actions | Terraform | GitOps | MLOps | Openshift
- Language:** German-B1 | English-C1

## AWARDS AND CERTIFICATIONS

- GCP Associate Cloud Engineer:** Certified Associate Cloud Engineer - Google Cloud Platform
- Nokia Fearless Award:** Recognized by QA team for prompt feature delivery, solution-oriented approach, and rapid learning curve in complex system environments.