

# Mrinal Banchhor

✉ mrinalbanchhor@gmail.com

☎ 7000798284

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## WORK EXPERIENCE

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### Nokia Solutions and Networks

Software Engineer

Sep 2021 - Present

- Engineered high-performance backend systems using Java and Spring Boot, leveraging 4 years of expertise in backend development to deliver scalable and efficient solutions.
- Enhanced Nokia's NMS product by optimizing Performance Management and Mediation components, improving network monitoring efficiency by 20% and reducing data mediation errors by 15%.
- Implemented performance optimization strategies that increased system efficiency by 10% and improved scalability to handle high-traffic environments effectively.
- Optimized backend processes, reducing response times by 15% and enhancing reliability under peak loads.
- Designed and maintained backend architectures, ensuring 99.99% uptime and a 30% improvement in fault tolerance for critical network management operations.
- Developed and integrated custom logic to support 5+ new network elements for Verizon customers, achieving 100% compatibility with existing infrastructure and increasing client satisfaction by 25%.

## EDUCATION

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### NIT Raipur

M. Tech in IT (Specialization in Machine Learning) - 8.37 CPI

July 2019 - July 2021

## PROJECTS

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### NetAct (NMS) | JAVA, Spring Boot, Robot Framework

Feb 2023 - Present

- Contributed to Nokia's legacy Network Management System (NMS), NetAct, with a primary focus on the Performance Management and Mediation components. Enhanced network operations by implementing system performance enhancements, resulting in improved efficiency and scalability for deployments.

### NOM (NMS) | Docker, Kubernetes, microservices

Nov 2021 - Dec 2022

- Created and refined microservices for Nokia Network Operations Master (NOM), enabling scalable network operations. Containerized apps with Docker and managed microservice pods through Kubernetes for efficient deployment and resource management.

### Portfolio Management Application | Spring Boot, Microservices, Docker, Kubernetes

- Built an Application using Spring Boot and microservices architecture for modularity and scalability. Containerized services with Docker and orchestrated deployments via Kubernetes.

## Research Work

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- **Comparative study of Ensemble learning Algorithms on Early Stage Diabetes Risk Prediction** : Published in *IEEE, Conference: 2nd INCET 2021*
- **A Survey on Visual Question Answering** : Publishing in *IEEE, Conference: 2nd GCAT 2021*

## HARD SKILLS

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- Backend : Spring Boot, Microservices, JAVA, Rest API, SQL
- Testing : Junit, Robot Framework Automation, Selenium Library
- Database : MySQL, Oracle DB
- Tools : git, Jenkins CI/CD, Docker, Kubernetes
- Familiar with: C++ (STL), Python (Numpy, Pandas, Scikit, Keras, TensorFlow)

## SOFT SKILLS

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- Leadership
- Mentoring
- Good Analytical Ability