Nehal Mahendra Rane

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Objective

Driven and adaptable engineering student aiming to deliver meaningful solutions through innovation, collaboration, and continuous growth.

Education

Bachelor of Engineering in Computer Engineering   Dec 2021–Present
Savitribai Phule Pune University, Pune, MH   GPA: 9.0/10

Internship Experience

Java Full Stack & React Development Intern — Cognizant   Apr 2025 – Present

- Contributing to full-stack application development using Java (Spring Boot) and React.js.
- Collaborating in Agile teams to build scalable, maintainable software systems.
- Developing RESTful APIs, integrating front-end interfaces with backend services.
- Participating in code reviews and CI/CD practices for enterprise-grade deployments.

Academic Projects

QuickCart: E-commerce Software (GitHub)

- Developed a scalable e-commerce platform using Tkinter and Firebase backend.
- Implemented secure authentication using JWT and OAuth.
- Optimized API response times using caching strategies.
- Enhanced user experience with dynamic UI elements and real-time updates.

HealthPod: IoT Healthcare Monitoring (GitHub)

- Developed an IoT-based system for real-time health monitoring using ESP8266 and biometric sensors.
- Integrated cloud-based analytics using ThingSpeak and Azure AI services.
- Designed a Flutter-based mobile application for remote patient monitoring.
- Implemented MQTT for efficient data transmission between sensors and cloud.

Skills

- **Programming Languages:** Java, Python, C, C++
- **Cloud Computing:** Azure Cloud Services, Serverless Computing, Virtual Machines, Containerization (Docker, Kubernetes)
- **AI & Data Science:** Machine Learning, Deep Learning, Natural Language Processing (NLP), TensorFlow, OpenCV
- **DevOps & CI/CD:** Git, Jenkins, Terraform, Ansible, Kubernetes
- **Database Management:** SQL, Firestore, Google Firebase, MongoDB
- **Internet of Things (IoT):** Embedded Systems, ESP8266, ThingSpeak, MQTT
- **Software Development:** RESTful APIs, Microservices, Agile Methodologies
- **Soft Skills:** Problem Solving, Critical Thinking

Awards & Achievements

- 2nd Place: International ROC RoboAnalyzer Competition, IIT Delhi 2024-25.
- 1st Place: IBM Qiskit Fall Fest Quiz Competition 2024-25.
- 3rd Place: IBM Qiskit Fall Fest Hackathon 2024-25.
- Participation: ISRO Robotics Challenge, URSC 2024.
- Participation: Smart India Hackathon (SIH) 2023.
- Participation: Avishkar Zonal Level Competition 2023-24.