Nehal Mahendra Rane

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Objective

Motivated and detail-oriented engineering student seeking to contribute to innovative and impactful projects. Eager to apply analytical thinking, creativity, and collaboration in a dynamic and challenging environment. Committed to continuous learning and delivering high-quality results in every task.

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.