Nehal Mahendra Rane

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Profile

Results-driven software engineer with a strong foundation in computer engineering, cloud computing, and AI technologies. Adept at developing scalable solutions, optimizing performance, and leveraging emerging technologies for impactful projects. Passionate about IoT, cloud infrastructure, and software development.

Education

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

Higher Secondary Certificate (HSC)   **May 2021**
Anglo Urdu Boys Junior College, Pune, MH
Scored: 96.50% (PCM)

Secondary School Certificate (SSC)   **March 2019**
St. Aloysius Convent High School, Bhusawal, MH
Scored: 95.40%

Skills

- **Programming Languages:** Java, Python, C, C++
- **Cloud & AI Technologies:** Azure Cloud Services, Virtual Machines, Cognitive Services, Serverless Computing, AI Model Deployment, Machine Learning, Natural Language Processing (NLP)
- **Database Management:** SQL, Firestore, Google Firebase
- **Frameworks and Tools:** Vim, Git, Tkinter, Postman
- **Core Competencies:** Data Structures, Algorithms, Operating Systems, Cloud Computing, Internet of Things (IoT), DBMS

Projects

QuickCart E-commerce Software (GitHub)

- Developed an intuitive e-commerce platform using Tkinter for a user-friendly interface.
- Enhanced GUI with custom Tkinter libraries for modern design elements.
- Integrated Google Firebase for efficient data storage and management.
- Implemented JSON parsing for streamlined data processing.
- Secured platform authentication with JWT technology.

IoT Healthcare Module (GitHub)

- Designed an IoT healthcare module for real-time monitoring of vital signs using ESP8266 and sensors.
- Programmed device functionality with C++ and integrated data storage with ThingSpeak.
- Built an intuitive user interface using Flutter.
- Tested API integrations with Postman for seamless performance.

Awards

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