

AMIT RAJ

SOFTWARE ENGINEER

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LeetCode | **Linkedin** | **GitHub** | **HackerRank**

EDUCATION

Institute of Technology and Management
Computer Science Engineering BTECH
CGPA: 6.74

Gorakhpur
July 2019 - July 2023

EXPERIENCE

Motivus Innovation Network Pvt Ltd | Software Engineer

Noida | March 2024 - Present

Led the development of a wireless BMS for real-time monitoring and control, designing AVR-based hardware with C++. Collaborated with teams to integrate wireless data reporting, improved system reliability by troubleshooting issues, maintained detailed documentation, and developed testing protocols to ensure high performance and quality.

SKILLS

Programming Languages: C++, Python, HTML
Libraries/Frameworks: JavaScript, React, NodeJS, Electron
Databases: MySQL, MongoDB

PROJECTS / OPEN-SOURCE

Battery Monitoring System | Link

C++,HTML/CSS, JavaScript, MySQL, PHP, Json, IOT Device

Designed a real-time monitoring system for VRLA and Li-ion batteries with **live data tracking**, alerts, and a user-friendly GUI. Integrated MySQL for data logging and implemented USB communication via ESP32. Developed web and desktop dashboards with graphs, email notifications, and report generation.

Automatic Treading Web App

Node.js, React, Electron, UI, API, MongoDB

Developing a web app for **real-time market analysis** and automated trade execution with customizable algorithms. Features live price tracking, **performance analytics**, and **user-friendly dashboards**. Integrated **APIs** for secure and seamless trading operations.

VRLA Battery Analysis Device

RaspberryPi, I2C, UART, Python, IOT Based

Developed a lab-based prototype using **Ultrasound Imaging, EIS, Thermal Imaging, and Acoustic Emission Testing** for battery diagnostics. Utilized **Raspberry Pi** for real-time analysis, performance reporting, and predictive maintenance.

Multi-featured Monitoring System

Machine Learning, Python, Twilio, MySQL

Developed a real-time **face recognition** security system using **machine learning algorithms** to identify users and objects in workplaces and classrooms. Automated warning notifications through **Twilio API**, improving overall security response time.

College Website Template

HTML/CSS, JavaScript, MySQL, PHP

Developed and deployed a dynamic college website that interfaced with student information from a **MySQL database**, learning layout construction and database integration.

CERTIFICATIONS

- Full Stack Developer - IIT Kanpur.
- Certified Ethical Hacker - IIT Kanpur.
- Android App Development - Internshala.
- Android Bug Bounty Hunting - Codered EC-Council (Sep 2020).