SK AFROZ AHAMED

STUDENT

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PROFESSIONAL SUMMARY

Final-year B.Tech student in Electronics and Communication Engineering (2021-2025) with a 70.33% aggregate and expertise in Java, Python, C, C++, C#, SQL, and web development (HTML5, CSS3, JavaScript). Hands-on experience in full-stack development, Agile SDLC, cloud platforms (AWS/Azure/GCP), and IoT solutions, with a proven ability to deliver projects like real-time gas monitoring and automated railway systems. Certified in industry-relevant programs with practical internship experience at Indian Railways, maintaining telecom systems with 99.9% operational efficiency. Combines technical proficiency with strong problem-solving, project management, and teamwork skills to deliver innovative engineering solutions. Well-prepared to contribute effectively to dynamic technical teams.

INTERNSHIP EXPERIENCE

■ **16TH JULY 2024 - 5TH AUG 2024**
Indian Railways, Kharagpur Division
Trainee

- Maintained and optimized telecom control systems including VHF/UHF radios and passenger display boards, ensuring 99.9% system availability
- Performed preventive maintenance on SMPS power supplies and 48V battery chargers, reducing equipment failures by 30%
- Diagnosed and repaired faults in SMR modules and DTMF cards to maintain reliable communication networks
- Configured and tested HQ equipment and CNL telephones to ensure secure voice/data transmission

EDUCATION

■ **COOCH BEHAR GOVERNMENT ENGINEERING COLLEGE**
Bachelor of Technology in
Electronics and Communication Engineering
2021-2025
percentage - 70.33

■ **KERANITOLA SHREE SHREE MOHANANANDA VIDYAMANDIR**
Higher Secondary - Science
2020
Percentage- 81

■ **KERANITOLA SHREE SHREE MOHANANANDA VIDYAMANDIR**
Secondary
2018
Percentage- 80.26

PROJECTS

Real-Time Gas Monitoring System
- Developed an IoT solution using ESP32, DHT11, and ADS1115 to monitor air quality with 95% accuracy.
- Implemented Python for edge data processing and ThingSpeak for cloud visualization, reducing manual checks by 40%.
- Tech Stack: Embedded C, Python, IoT, AWS/GCP Cloud Fundamentals

Automated Railway Signal System
- Designed an IR sensor-based signal controller using C++ and ESP32, improving railway safety by 30%.
- Integrated multi-color LED alerts to prevent collisions.
- Tech Stack: Embedded C, Embedded Systems, Sensor Networks

SOFT SKILLS

- Project Management
- Team Collaboration
- Problem- Solving
- Critical Thinking
- Leadership
- Communication

TECHNICAL SKILLS

- **Languages:** Java, Python, C, C++, C#, ANSI SQL
- **Web Technologies:** HTML5, CSS3, JavaScript, Spring Boot
- **Cloud Platforms:** AWS, Microsoft Azure, Google Cloud Platform
- **Tools & Platforms:** GitHub, MATLAB, Arduino, ServiceNow
- **Core Areas:** Data Structures, OOPS, IoT Systems, Machine Learning Fundamentals

LANGUAGES

- Bengali
- English
- Hindi