

# MD NOORUL AIN ASHRAFI

## Software Engineer

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Adaptable mind-set additionally with proven critical thinking, Team management, and communication skills with a demonstrated history of working in the information technology and services industry. Skilled in Linux System and Knowledge of all four types of programming techniques Procedural using C89, Object oriented using C++11, C# and Python, Functional using JavaScript and Declarative using SQL.

### PROFESSIONAL EXPERIENCE

#### IOT Summer Intern

Online Mode (Udemy) Sep 2022-Oct 2022

#### **BUILD IOT Things from Scratch to Market.**

- ✧ Configured and maintained IoT devices and sensors, ensuring seamless data collection and transmission.
- ✧ Collaborated with cross-functional teams to troubleshoot and resolve IoT system issues.
- ✧ Participated in data analysis and visualization, helping to extract meaningful insights from IoT data.
- ✧ Contributed to the optimization of IoT security protocols, ensuring data integrity and privacy.
- ✧ Assisted in developing IoT applications and firmware using Arduino IDE with programming languages.

### TECHNICAL SKILLS

- ✧ **Operating System:** Ubuntu, Linux, Windows
- ✧ **Tools:** PostgreSQL, Visual Studio Code, PyCharm, Proteus
- ✧ **Version Control:** Git, GitHub
- ✧ **Programming/ Language:** C, C++, Python, SQL, JavaScript, HTML/CSS
- ✧ **Linear Data Structures:** Linked list, Stack, Queue, Searching and Sorting
- ✧ **Framework:** Bootstrap
- ✧ **Content Management Systems:** WordPress

## **PERSONAL PROJECTS**

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### **Advanced Highway Monitoring System with IoT and solar power**

**(Final year Project)**

- ⌘ Tech Involved —C/C++, Micro Python.
- ⌘ Implemented solar panels for uninterrupted data collection, enhanced Wi-Fi connectivity for safety, real-time traffic data, and weather updates. Enabled data-driven traffic management while reducing carbon footprint through renewable energy.

### **Movie Review**

**(Frontend Project)**

- ⌘ Tech Involved –HTML, CSS, JavaScript
- ⌘ Utilized Bootstrap for responsive UI, ensuring cross-device compatibility. Designed engaging platform for movie enthusiasts. Implemented user authentication, boosting user engagement. Integrated APIs and managed movie data efficiently.

### **Hostel Reservation System**

**(DBMS Project)**

- ⌘ Tech Involved --Linux, SQL
- ⌘ Streamlined hotel reservations, elevating booking process. Implemented user-friendly online platform, improving customer experience. Optimized revenue with real-time data monitoring. Mastered database design and SQL.

### **ATM Machine Programming**

**(C++ programming Project)**

- ⌘ Tech Involved – C++
- ⌘ Created secure ATM simulation with robust user authentication and data integrity. Implemented user-friendly menu system.

### **Walking Humanoid Robot Using Arduino**

**(IoT Project)**

- ⌘ Tech Involved –Arduino IDE, C/C++
- ⌘ Built remote-controlled humanoid robot, showcasing IoT, Arduino, and hardware expertise. Demonstrated innovation in custom component development, contributing to robotics and IoT.

## **EDUCATION**

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**B. TECH ELECTRONICS AND COMMUNICATION ENGINEERING (Lucknow, Uttar Pradesh India)**

***[Integral University Lucknow] 2019-2023***