

# HAROON RAFIQ

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## Career Objective

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Motivated and enthusiastic Computer Science Engineer with strong technical, problem-solving, and project management skills. Passionate about IoT, software development, and emerging technologies. A quick learner, highly adaptable to new tools and environments, and eager to contribute effectively in both technical and non-technical roles.

## Education

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### 3-Year Diploma in Computer Science & Engineering

Government Polytechnic College, Anantnag (J&KSBOTE) – **CGPA: 9.37**

### Secondary School (10th Class)

Government Boys High School, Anchidora (J&KBOSE) – **77%**

## Experience / Apprenticeship & Internship

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### Apprentice at IOT Zakura Campus in AI & CS Dept. , University of Kashmir(📅 September 2025 - Present)

- Assisted faculty in conducting AI and programming lab sessions, ensuring smooth execution of practical coursework.
- Mentored students in Programming Problem Solving (PPS) using C and Python, focusing on logic building, debugging, and structured coding practices.
- Provided technical support in system setup, software installation, and troubleshooting, improving lab efficiency.
- Served as a **Resource Person** for a 4-week winter internship titled **"Foundation for Mathematics and Programming for AI"**
  - Delivered python programming sessions for AI.
  - Guided students in problem-solving, coding practices, and logical thinking.
  - Assisted participants in building a strong foundation for AI applications.
- Actively contributed to **Institution's Innovation Council (IIC)** activities, including:
  - Preparing and maintaining detailed reports and documentation of innovation events, workshops, and technical sessions.
  - Coordinating with faculty and team members to collect, organize, and present activity data.
  - Supporting the execution of innovation-driven programs and student engagement initiatives.
- Strengthened skills in technical documentation, teamwork, coordination, and communication through active participation in academic and innovation activities.

### AI Foundations Internship – NIELIT Srinagar (Feb 2025)

- Successfully completed an intensive internship focused on Artificial Intelligence fundamentals, concepts, and real-world applications.
- Acquired in-depth knowledge of **machine learning techniques**, including supervised and unsupervised learning.
- Gained hands-on experience with neural networks, data preprocessing, and basic model development.
- Worked on practical exercises involving data analysis, pattern recognition, and algorithmic problem-solving.
- Developed a strong understanding of AI workflows, including data collection, preprocessing, model selection, and evaluation.
- Strengthened programming and analytical skills through structured problem-solving approaches.
- Explored applications of emerging AI technologies in real-world scenarios.

## Projects

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### 1. Anti-Suffocation System for Smart Homes (IoT)

- Designed and developed an IoT-based smart safety system to detect and prevent suffocation risks in enclosed indoor environments.
- Utilized Arduino Uno, ESP8266 Wi-Fi module, MQ2 gas sensor, DHT11 sensor, and relay module for system implementation.
- Monitored environmental parameters such as temperature, gas concentration (CO<sub>2</sub>/smoke), and oxygen levels in real time.
- Implemented an automated system that triggers buzzer alerts and activates ventilation (fan) during unsafe conditions.
- Applied embedded systems programming and sensor integration for real-time data processing.
- Enhanced home safety through early hazard detection and automated response mechanisms.
- Gained practical experience in IoT systems, circuit design, and real-time monitoring.
- Successfully completed and presented as a major diploma project.

## 2. Weather Forecast Website (Frontend Development)

- Designed and developed a responsive weather forecast web application using HTML and CSS.
- Created a clean and user-friendly interface to display current weather conditions and future forecasts.
- Structured web pages using proper HTML semantics and CSS styling techniques.
- Implemented responsive design to ensure compatibility across mobile, tablet, and desktop devices.
- Enhanced user experience through organized layout, typography, and visual presentation.
- Strengthened frontend development skills including UI design and styling optimization.
- Demonstrated the ability to build functional and visually appealing web interfaces.

## 3. Chatbot Automation using n8n

- Designed and developed an automated chatbot workflow using n8n for handling user queries.
- Built a workflow to receive, process, and respond to user inputs in real time.
- Integrated multiple services and logic nodes for message handling and response generation.
- Configured triggers and conditions to automate responses based on user input.
- Gained experience in workflow automation, API integration, and chatbot development.
- Improved problem-solving skills by creating automated communication solutions.

## Technical & Professional Skills

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- **Programming Languages:** C, Python, Java, R with strong problem-solving and logical programming skills.
- **Database Management:** MySQL with experience using MySQL Workbench for database operations.
- **Web Development:** HTML, CSS, Bootstrap for building responsive web interfaces.
- **IoT & Hardware:** Arduino, ESP8266, sensors, and simulation using Tinkercad.
- **Automation & Workflow Tools:** n8n for automation and chatbot development.
- **Development Tools & Software:** Arduino IDE, VS Code, NetBeans, Creo, MySQL Workbench, Tinkercad, Creality.
- **Problem Solving:** Strong analytical thinking and debugging skills.
- **Communication:** Good verbal and written communication skills.
- **Adaptability:** Quick learner with ability to adapt to new technologies.
- **Time Management:** Efficient in handling tasks and meeting deadlines.
- **Teamwork:** Experience working collaboratively in technical environments.

## Certifications & Training

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- Foundation Course in Artificial Intelligence – NIELIT Srinagar, 2025
- Completed Bharat 5G Labs Physical Training Program, gaining exposure to 5G technologies and communication systems.
- Certified as a Resource Person for a 4-week winter internship titled "Foundation for Mathematics and Programming for AI" at University of Kashmir, IOT Zakura Campus.

## Languages

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English | Urdu | Kashmiri