

MUHAMMAD USAMA

SOFTWARE DEVELOPER



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SUMMARY

Innovative and detail-oriented IoT developer with a Bachelor's degree in Software Engineering and 4 years of academic experience in embedded systems, real-time applications, and full-cycle IoT project development. Skilled in programming ESP8266 and ESP32 microcontrollers using C and the Arduino IDE. Proficient in integrating sensors with cloud platforms like Firebase and ThingSpeak for real-time data transmission and mobile dashboard visualization. Strong foundation in software design principles, network communication, and system integration. Dedicated to applying software engineering skills to solve real-world problems through smart, connected devices.

VOLUNTEERING EXPERIENCE

FREE BLOOD CAMP SOCIAL SERVICE CERTIFICATE

Agrivarsity Scout Group, UAF, 05 - 06 Dec 2018

SOCIAL VOLUNTEER SERVICE

Cust Helping Hand, 13 Sep, 2024

EDUCATION

BS SOFTWARE ENGINEERING

Capital University of Science & Technology • 2021 - 2025

F.SC (PRE ENGR.)

Punjab College of commerce • 2019 - 2020

MATRIC

Army public school and college system misrial road rawalpindi • 2016 - 2018

CERTIFICATIONS

INTRODUCTION TO FRONT-END DEVELOPMENT COURSE

Authorized by Meta and offered through Coursera • Jun 2, 2023

PROGRAMMING WITH JAVASCRIPT COURSE

Authorized by Meta and offered through Coursera • Sep 13, 2023

LEARN TO CODE IN PYTHON: PROGRAMMING BEGINNER TO ADVANCE

Authorized by Udemy • July 19, 2025

PYTHON FOR EVERYONE MASTER THE BASICS OF PROGRAMMING

Authorized by Udemy • July 19, 2025

SOME PROJECTS

• SMART PLANT WATERING SYSTEM

C++, Arduino IDE, ESP8266, Soil moisture sensor, Blynk

• FIRE ALARM SYSTEM

C++, Arduino IDE, Arduino Uno, Infrared sensor, Buzzer

• WATER TURBIDITY MONITORING SYSTEM

C++, Arduino IDE, Arduino Uno, Water turbidity sensor

• GAS DETECTION SYSTEM

C++, Arduino IDE, Arduino Uno, Gas sensor, Infrared sensor

• SMART TRAFFIC MONITOR SYSTEM (FYP)

C++, Arduino IDE, ESP32, Python, React, SORT, YOLO

TECHNOLOGY & SKILLS

- HTML 75%
- CSS 75%
- JavaScript 75%
- Python 90%
- C/C++ 90%
- Node.js 65%
- Version control 75%
- FireBase 65%
- Git/GitHub 80%
- PHP 90%

SOFT SKILLS

- Time Management
- Problem Solving
- Creativity
- Teamwork
- Leadership
- Openness to criticism
- Decision-making

LANGUAGE

- English
- Urdu
- Punjabi

HOBBIES

- VolunteeringWork
- E-Gaming