Abdullah Sattar

Software Engineer

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Portfolio: abdullahsattar.com

Summary of Key Skills

Software Development, Programming, Automation, SDLC, Project management. Repeatedly developed and maintained various software with SDLC. Worked on Linux-based architecture, integrated hardware components, and conducted unit and integration testing for reliability and performance. Experienced in communication protocols such as i2c, and GPIOs.

C++ Development | Programming | Software Architecture| SDLC | Clean Code
Communication | Leadership | Project Management | Problem Solving

Technical Proficiencies

Programming: C/C++ development, Bash Scripting, Python Automation, Embedded Systems
Development: Linux Base Architecture, Hardware Abstraction Layer (HAL), Hardware Integration
Build & Automation: CMake, Scripting, Unit & Integration Testing, Integration with High-Level Languages
Communication Protocols: i2c, GPIOS, Microcontrollers
Tools, IDEs & Systems: Microsoft VS Code, Microsoft Visual Studio, Git, Github, Google Colab

Professional Experience

Byonyks   **Full Time, Pakistan**

Software Engineer   09/2023 - Present

Byonyks is the world's first biomedical device innovation company designing healthcare devices using medical technology. *https://byonyks.com/*

Task & Responsibilities:

- I develop and maintain software for Linux-based architectures using C++.
- I integrate various hardware components with software systems to ensure seamless operation.
- My work includes development in the Hardware Abstraction Layer (HAL) and the therapy layer.
- Utilize CMake and scripting for build processes and automation.
- Conduct unit and integration testing for device reliability and performance.
- I automate processes to enhance the functionality of medical technology devices.
- Possess an understanding of GPIO, I2C, microcontrollers, and software-hardware communication.

Additional Experience

Google

GDSC Lead   08/2022 - 07/2023

Accomplishments/Tasks:

- Got Selected by Google.
- Skills: Leadership, Communication.
- Organized events on AI, ML, Flutter, Google Solution Challenge, and Robotics.
- Represented FAST National University Lahore on an international level.

Google DSC Lead 2022-2023 Badge

Education

Bachelor of Science (BS) | Computer Science   08/2019 - 06/2023
FAST National University of Computer and Emerging Sciences (NUCES), Lahore, Pakistan

Objected Oriented Programming	Data Structures	Design & Analysis of Algorithm
Software Engineering	Artificial Intelligence	Operating Systems

Personal Projects

Smart Platform for Investors (FYP)   10/2022 - 06/2023
- The project leveraged the MERN stack (MongoDB, Express, ReactJS, NodeJS) as its foundational knowledge areas while utilizing Visual Studio Code as the primary development tool.
- Deep learning algorithms have been effectively employed to harness the power of cutting-edge concepts.

GA to Train ANN Weights
- Genetic Algorithm to train the neural network.
- Language used: python.
- Software tool: Google Colab.

University Management System
- This project was implemented using the C++ programming language, showcasing proficiency in C++ development.
- Areas: Data Structure, Object Oriented Programming, and Software Design and Analysis.

PC Games
- Developed a Minesweeper game in **C++** using Microsoft Visual Studio.
- Street Car Racing Game developed in **Assembly Language.**
- Rubik Cube Solver, Othello, and Sudoku using **Artificial Intelligence.**

Languages

English: Full Professional Proficiency
German: Limited Working Proficiency
Turkish: Limited Working Proficiency