Abdullah Afzal *Software Engineer*

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in Engr. Abdullah Afzal

Professional Summary

Software Engineer with a proven track record in delivering comprehensive solutions that meet client needs. Skilled in analyzing requirements, defining project scope, and ensuring successful project outcomes. Proficient in creating effective solutions that drive business objectives forward.

Professional Experience

2024/08 – present
Karachi, Pakistan

Assistant Manager-II (Research and Development Department)
TPL Trakker Ltd.
Currently serving as Assistant Manager in the Research and Development Department, leading IoT and software development projects while overseeing a team that bridges technical requirements with practical solutions for innovative applications and services.

2023/08 – present
Karachi, Pakistan

Trainee Engineer (Research and Development Department)
TPL Trakker Ltd.
As a Trainee Engineer at TPL Trakker, I worked extensively on IoT products, focusing on both hardware and software development. My responsibilities included analyzing client requirements to determine project scope and deliverables, and contributing to the design and development of innovative IoT solutions. This role enhanced my ability to bridge technical requirements with practical solutions, ensuring successful IoT project implementation.

2023/05 – 2023/08
Karachi, Pakistan

Intern (Research and Development Department)
TPL Trakker Ltd.
Specialized in Embedded Systems Design and IoT, focusing on creating efficient software for various devices. Proficient in Embedded C, I ensured seamless functionality of embedded software across projects, integrating IoT capabilities where applicable.

2023/01 – 2023/02
Peshawar, Pakistan

Intern
Pakistan Aeronautical Complex Kamra
Pakistan Aeronautical Complex, I worked closely with aerospace engineering professionals to gain practical experience in aerospace engineering principles and practices. I assisted senior engineers in various aspects of design, testing, and maintenance activities, contributing directly to projects focused on software development within aerospace applications.

Education

2020/06 – 2024/06
Karachi, Pakistan

BE Software Engineering
PAF - KIET
Graduated with a Bachelor of Science in Software Engineering, achieving a GPA of 3.45. This accomplishment reflects my strong grasp of software engineering principles and practices. Through various projects and coursework, I honed my skills in software development, system design, and problem-solving, equipping me with the technical expertise and analytical capabilities to excel in the field.

2018/04 – 2020/04
Karaci, Pakistan

Intermediate
Govt. National College

Certifications

Developing Back-End Apps with Node.js and Express (IBM via Coursera)

Gained in-depth knowledge of backend development using Node.js and Express, including RESTful APIs, database management, and asynchronous operations. **Download Certificate**

Foundations: Data, Data, Everywhere (Google via Coursera)

Learned key concepts in data analytics, gaining insights into the use of data for decision-making and problem-solving in business environments. **Download Certificate**

Web Engineering (PHP + CodeIgnitor) Govt. of Sindh Haza Institue of Technology

Focuses on web application development using PHP and the CodeIgniter framework, covering MVC architecture, database management, and security best practices.

Projects

2024/06 – present	**Tirmizimpex** • **Description:** Designed and developed an ERP system using Laravel, streamlining company operations, inventory, and workflow management. • **Impact:** Centralized business processes, improving operational efficiency and reducing manual work.
2024/03 – present	**Indoor Localization System** • **Description:** Developed an Indoor Localization system using Ultra-Wideband (UWB) technology, integrated into a MERN stack application. • **Impact:** Enabled precise location tracking and navigation in indoor environments.
2024/02 – 2024/03	**GreenNest** • **Description:** Developed a mobile app and backend in Node.js for hydroponic gardening, integrating Node.js backend and ESP32 controllers. • **Impact:** Enabled real-time monitoring and control of hydroponic systems.
2023/09 – 2024/01	**Facial Recognition Attendance System** • **Description:** Successfully deployed a Facial Recognition Attendance System at TPL Trakker. • **Impact:** Improved attendance tracking accuracy and efficiency for the organization.
2023/05 – 2023/08	**Vehicle Tracker Firmware Development** • **Description:** Developed firmware for a vehicle tracker, integrating GPS functionality and communication protocols for real-time location tracking. • **Impact:** Enhanced vehicle security and fleet management efficiency.
2023/05 – 2024/06	**EventSynergy** *Contest Mangment Platform* • **Description:** Created a dynamic platform for event management and collaboration, consisting of a web app built with PHP and HTML, and a mobile app built with Flutter, with a centralized database. • **Impact:** Optimized Contest mangement among organizers, participants, and stakeholders

Skills

- C
- JavaScript
- Node.js
- C#

- Python
- React.js
- REST APIs
- Node.js

- Flutter (Mobile Application Development)
- Database Management (SQL / NoSQL)
- PHP/Laravel
- Embedded C