Shaik Zubair Ahmad

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Objective

Versatile Software Engineer with strong expertise in **Qt-based** cross-platform applications, **embedded systems**, and real-time data handling. Proven ability to take ownership of complex projects and deliver **scalable, multithreaded solutions** with **robust error handling** and **smooth UI/UX**. Experienced in **serial protocols** (RS232/RS422), **Git-based debugging**, **SQLite state management**, and **WASM** setup for native-to-web portability. Seeking to contribute high-performance, **production-grade software** guided by safe and **sophisticated coding practices**.

Professional Experience

Qt C++ Software Developer
MayTech Systems, Hyderabad
Jul 2024 – Present

- Developed desktop and embedded applications from scratch using the Qt framework, focusing on custom tool development.

- Expertise in C/C++, Qt, Multithreading, UART, and Socket Programming.

- Designed and implemented projects involving real-time data handling and communication using Qt Creator.

Contract Jr Software Engineer (Client – RCI DRDO)
Hydro Pneumatic Engineers (Hyd) Pvt. Ltd., Hyderabad
Mar 2023 – Jun 2024 (1 year 4 months)

- Created an automated tool for log file retrieval and optimized data analysis.

- Ported software to the latest Qt version, ensuring framework and database compatibility.

- Engaged in code reviews, testing, debugging, and developed applications using Socket Programming and RS422 Networking Protocols.

Python Intern
THINK CHAMP PRIVATE LIMITED, Remote
Jan 2023 – Feb 2023 (2 months)

- Developed GUI applications with Tkinter, including a Bill Management System and Train Ticket Booking System. Utilized NumPy and Pandas for data analysis and processing.

Projects

HighGTestJig (Client: DRDO)

- Desktop Application to control HighGTestJig instrument for real-time hardware test automation and data acquisition in embedded instrumentation environments.
- **Features :** Multi Protocol Communication (RS232/RS422), Live Data Parsing and Realtime Plotting, Threading (QtConcurrent), Pdf/Excel/Sqlite integration for saving, Logging, Muti-tabbed interface, Defensive Programming (Mutexes, Checksum, Packet alignment), Version Control, QTimer, etc.,

ACHT – Automatic Cable Harness Tester (Client: BEL Chennai)

- Developed a secure Qt C++ kiosk application for automated testing of Defence-grade cable harnesses. Implemented continuity, voltage, and resistance testing with RS422-based DAU integration. Designed full-screen, tamper-proof UI with role-based access control. Ensured real-time monitoring, hardware-linked safety features, and robust system reliability.

Advanced Hardware Testing Interface with Real-Time Data Visualization (Defence Project)

- Developed a user interface for hardware testing with real-time data acquisition and visualization via RS422 communication.
- *Technologies Used:* C++/Qt, QSerialPort, QCustomPlot, Qt XLSX Library, Multithreading.

Embedded System Interface Application (Defence Project)

- Developed a Qt C++ application for embedded hardware interaction, enabling hardware testing, real-time data acquisition, and configuration. Key features include port/baudrate setup, channel management, secure data handling, error alerts, logging, and customizable settings. Used Qt Framework, QSerialPort, QXlsx, and multithreading for efficient operations.

Medical Report Generation Application

- Created a desktop application using Qt C++ for generating detailed medical reports in PDF and Word formats with user input forms and complex formatting.
- *Technologies Used:* Qt C++, QPdfWriter, QPainter, Python (pdf2docx).

Python Projects (Personal Projects)

- Created GUI-based applications (Bill Management, Calculator, Train Booking System) using Tkinter and MySQL.

Education

Bachelor of Technology (Mechanical Engineering)
Jawaharlal Nehru Technological University Anantapur (JNTUA), Kalikiri | **2018 – 2022** | 74.21%
Intermediate (MPC)
Sri Chaitanya Junior College, Nellore | **2016 – 2018** | 95.3%
SSC
Audisankara EM High School, Nellore | **2015 – 2016** | GPA: 9.7

Technical Skills

- **Languages:** C/C++ (Object-Oriented Programming), Python(Scripting & Automation)

- **Operating Systems:** Red Hat Linux (Basic Bash scripting, Linux commands)

- **Frameworks:** Qt (C++/Qt Widgets, Designer forms), qmake

- **Protocols:** RS422 Serial Communication, Socket Programming (TCP)

- **Version Control & Tools**: Git, GitHub, Qt Creator, Inkscape, Microsoft Clipchamp

- **Databases:** MySQL, SQLite

- **Web Technologies**: HTML, CSS, WASM

- **Mechanical Tools:** AutoCAD, ANSYS (Basics)

Licenses and Certifications

- **Python Programming Certification** (Link) – THINK CHAMP PRIVATE LIMITED

- **Python Internship Certificate** (Link) – THINK CHAMP PRIVATE LIMITED

- **Git** (Link) – THINK CHAMP PRIVATE LIMITED

Personal Details

- **Date of Birth:** 17/11/2000

- **Languages Known:** English, Hindi, Telugu, Urdu

- **Nationality:** Indian

Declaration
I hereby declare that all the details furnished above are true to the best of my knowledge.

Date: Aug 05, 2025
Place: Hyderabad

 (Shaik Zubair Ahmad)