Muhammad Abdullah Iqbal

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Summary

Computer Science student at FAST-NU specializing in AI, Full-Stack Development, and Systems Engineering. Proven track record in technical leadership as **Head of Robo Rumble (SOFTEC)** and **Teaching Assistant (OS/COAL)**. Passionate about merging **Behavioral Psychology** with **Generative AI** to build human-centric software solutions, with hands-on experience in **MERN, Transformers**, and Low-Level Architecture.

Skills

- **Programming:** Python, C++, JavaScript (ES6+), **TypeScript**, SQL, **x86 Assembly**.
- **AI / ML :** PyTorch, Hugging Face (Transformers), **LLMs (Gemini API)**, **DistilBERT**, Scikit-learn, **NLP**
- **Web & Mobile:** React.js, **React Native**, Node.js, Express, **Socket.io, Firebase, Electron.js**, MongoDB, REST APIs.
- **Systems & Networking:** OS Fundamentals (Concurrency, Paging), Linux CLI, TCP/IP Protocols, Network Routing.
- **Tools & Devops:** Git, GitHub, Postman, Streamlit, Expo.
- **Core Concepts:** OOP, Data Structures & Algorithms, SOLID Principles, Database Design, System Design.

Education

National University of Computer and Emerging Sciences | Lahore, Pakistan
BSc (Computer Science) | 07/2027

- *CGPA: 3.63/4.00*
- **Honors:** Dean's List (x4) – *Awarded for consistent academic excellence across four consecutive semesters.*

Projects

Automated Likert Scoring System – NLP & Psychology Research

- Engineered a fine-tuned **DistilBERT** transformer model to automate Likert-scale scoring (1-5) for psychological surveys, achieving **~85% accuracy**.
- Implemented batch response processing and confidence scoring pipelines, reducing manual evaluation effort for large-scale qualitative datasets.
- **Technologies:** Python, PyTorch, Hugging Face Transformers, Scikit-learn, Streamlit, Plotly.
- **Git Repo:** https://github.com/abdullahiqbal2610/Likert_Scorer.git

ABX-Chat – Real-Time Communication Engine

- Built a robust, secure messaging platform using the **MERN stack** (MongoDB, Express, Node.js) and **React Native**, featuring bi-directional **Socket.io** connectivity.
- Implemented advanced features including binary media streaming (Base64), real-time read receipts, presence detection, and persistent authentication without third-party SDKs.
- **Technologies:** React Native (Expo), Node.js, Express, MongoDB, Socket.io, TypeScript.
- **Git Repo:** https://github.com/abdullahiqbal2610/abx-chat.git

ABX-Terminal – AI-Integrated Shell Environment

- Developed a "Hyper-Glass" shell environment using **Electron.js** and **Google Gemini 2.5**, merging raw system control with context-aware AI.
- Features "God Mode" for zero-latency app execution and file manipulation, plus a procedurally synthesized audio engine using the Web Audio API.
- **Technologies:** Electron.js, Node.js, Google Gemini API, Web Audio API, HTML5/CSS3.
- **Git Repo:** https://github.com/abdullahiqbal2610/abx-terminal.git

ABX-One – J.A.R.V.I.S. Inspired AI Browser Assistant
- Created a **Manifest V3** Chrome Extension powered by **Gemini 2.5 Flash**, transforming the new tab into a voice-activated, conversational AI dashboard.

- Integrated a 3D parallax starfield engine and "Smart Widgets" (Crypto, Sports, Weather) that interact dynamically via the **Web Speech API**.
- **Technologies:** JavaScript (ES6+), Chrome APIs, Google Gemini 2.5, Web Speech API.
- **Git Repo:** https://github.com/abdullahiqbal2610/abx_browser.git

Experience

SOFTEC - FAST National University | Lahore, Punjab
Category Head - Robo Rumble | 12/2025 - Present

- Spearheading the **Robo Rumble** category for Pakistan's largest IT event, managing technical compliance and battle arena logistics for **50+ robot combat teams**.
- Leading a dedicated team of volunteers to enforce strict safety protocols and bot specifications, while coordinating with sponsors to ensure seamless event execution.

FAST National University | Lahore, Punjab
Teaching Assistant (TA) | 08/2025 - Present

- Mentoring **100+ students** across two semesters for **Operating Systems** (Spring '26) and **Computer Org & Assembly** (Fall '25), facilitating complex lab sessions and technical reviews.
- Conducting rigorous vivas and project evaluations, assessing student proficiency in **process scheduling, memory management (paging/segmentation),** and **x86 Assembly**.
- Streamlining grading workflows for assignments and quizzes, providing detailed technical feedback to improve student understanding of low-level system concepts.

Coca-Cola İçecek (CCI) | Lahore, Punjab
Campus Ambassador | 01/2026 - Present

- Selected for the prestigious **Next Talent Program**, serving as a strategic liaison to bridge the gap between FAST-NU's top talent and CCI leadership.
- Executing employer branding initiatives and recruitment drives to effectively position CCI as a premier destination for future engineering graduates.

Certifications, Coursework & Publications

- **Data Science:** Intro to Data Science in Python, Applied Plotting & Data Representation (Univ. of Michigan).
- **Tech & AI:** Microsoft Azure AI Fundamentals, IBM Data & Cybersecurity Fundamentals.
- **Psychology:** Social Psychology, Behavior Architecture, Science of Relationships (Toronto, Wesleyan, APA, Fractal); Author of the article: [The Need to be Need-Free](#) (Medium)

Profiles

- **Github:** https://github.com/abdullahiqbal2610
- **Portfolio:** https://abdullahiqbal2610.github.io/
- **LinkedIn**: https://www.linkedin.com/in/muhammad-abdullah-iqbal-a42b5b301/