Abdul Haseeb

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Education

Shifa Tameer-E-Millat University — Islamabad, Pakistan
Bachelor of Science in Computer Science, CGPA: 3.88 (100% Merit Scholarship) — *Jul. 2022 – Feb. 2026*

Allama Iqbal Model Science College — Bagh, Azad Kashmir
FSc Pre-Medical, 94% — *Sep. 2018 – Jun. 2020*

Read Foundation School System — Bagh, Azad Kashmir
Matric in Science, 86% — *Aug. 2015 – Jul. 2017*

Experience

Assistant Manager (Software Engineer) — Aug. 2026 – Present
NASTP (National Aerospace Science Technology Park) — *Islamabad, Pakistan*

- Developing software solutions for defense and research applications, contributing to simulation, data processing, and mission-critical systems
- Working across frontend, desktop, backend, AI, and geospatial components using React, Qt, Python, local LLMs, and mapping technologies
- Developing and integrating local AI workflows using LLM technologies and Ollama for application-specific use cases
- Collaborating with technical teams and defense-sector stakeholders to translate software, simulation, and data requirements into reliable engineering solutions

Full-Stack Developer — Jun. 2026 – Aug. 2026
Hecta Solutions — *Islamabad, Pakistan*

- Developed responsive web-based interfaces for smart TV and embedded platforms, focusing on usability, performance, and device compatibility
- Integrated external systems and data sources with application platforms using REST APIs, polling, caching, and real-time update mechanisms
- Implemented device-level functionality and optimized application resource usage for constrained embedded environments
- Designed reusable TypeScript abstractions to standardize device-specific functionality across multiple smart TV platforms
- Built reusable React components and platform-compatible UI foundations to support scalable and maintainable application development

Full-Stack App Development Intern — May 2023 – Dec. 2023
Royalion Developers — *Islamabad, Pakistan*

- Contributed to a desktop real-estate management application built with Electron, Firebase, and Cloud Functions
- Collaborated within a small team to design and deliver features that improved day-to-day user workflows
- Led development of Anger-Pill, a mobile app for conducting psychological surveys

Full-Stack Web & App Developer — Feb. 2023 – Present
Freelance — *Remote*

- Built Trackerdo, an Android app in Java with live location sharing and in-app communication via Firebase
- Built Privado VPN, a Flutter-based VPN app integrated with AdMob monetization, and ran closed testing cycles to refine the product
- Delivered custom websites and web apps for clients, including real-time chat, online quizzes, and e-commerce functionality

Projects

DairySense – Farm Management Platform (FYP) | *React, React Native, Python, Socket.io* 2025 – 2026

- Built an IoT-driven dairy farm management platform combining a React web dashboard, a React Native mobile app, and a Python service for sensor ingestion
- Implemented role-based access control, JWT authentication, and Socket.io-based real-time updates across web and mobile clients
- Developed a Python daemon that reads serial data from NodeMCU microcontrollers, forwarded from STM32-based smart collars over LoRaWAN radio
- Designed modules for cattle lifecycle management, heat and health tracking, milk/feeding analytics, HR/payroll, and supply chain integration
- Added Firebase Cloud Messaging push notifications and in-app chat for farm worker coordination

SMAS – University Timetable Scheduling System | *Next.js, Node.js, MySQL, TailwindCSS, Socket.io* 2026

- Built a full-stack real-time scheduling platform modeling teachers, rooms, and courses as constraint-aware entities
- Designed a beam-search scheduling engine with parallel computing to generate conflict-free timetables
- Implemented a three-tier warm-start candidate strategy to speed up timetable regeneration
- Built WebSocket-based live updates for multi-user synchronization and RESTful APIs over a normalized relational schema
- Profiled and optimized the engine (deferred cloning, typed-array occupancy indexing) after identifying state-cloning as the main bottleneck

VoteNow – Secure Online Election Platform | *Next.js, Firebase, Vercel* 2025

- Built a full-stack election management system with voter registration, candidate management, and secure tokenized voting
- Implemented real-time results visualization and admin dashboards, deployed on Vercel

Handwritten Digit Classification (ML/DL) | *Python, Scikit-Learn, TensorFlow* 2024

- Built and compared KNN+PCA, SVM (polynomial kernel), Naive Bayes, Random Forest, ANN, and CNN (LeNet) models on MNIST
- Reached 96% accuracy after preprocessing, normalization, and evaluation

Spam Email Classification (NLP) | *Python, Scikit-Learn* 2024

- Built a spam email classifier using Gaussian Naive Bayes with tokenization, stopword removal, and TF-IDF vectorization
- Reached over 85% accuracy and an 80% F1-score

Code Language Detection | *Flask, HTML/CSS/JavaScript* 2024

- Built a web app that identifies the programming language of a code snippet or uploaded file across 15+ languages

E-Chat – Social Media App | *Flutter, Firebase, Cloudinary* 2023

- Built a real-time social app with Google/email login, media uploads, posts, comments, likes, and friend requests

Study Sphere – Exam Preparation Platform | *Angular, Node.js, Socket.io, MySQL* 2023

- Built a real-time exam preparation platform following an MVC architecture for student-educator interaction

Reinforcement Learning Game Agent | *Flutter, Dart* 2023

- Built a Flutter mobile game with a Min-Max adversarial search algorithm powering the AI opponent

Barcode Authorization System | *Flutter, Firebase, Python* 2023

- Built a barcode-based registration and validation system with a Python local printing service for event check-ins and access control

Real-Estate Company Software (Proprietary, Hashim Associates) | *Electron, Node.js, Firebase* 2023

- Built cross-platform desktop software for real-time property and client data management

Online Shopping System | *Flutter, Firebase* 2023

- Built a mobile shopping app with authentication, real-time listings, cart, and order tracking

Technical Skills

Languages: C++, Python, Java, Kotlin, Dart, JavaScript, TypeScript, PHP, SQL
Web & Mobile Frameworks: React, Next.js, Angular, React Native, Flutter, Android SDK, Node.js, Flask, GetX, Bootstrap, TailwindCSS, Capacitor
Data & ML: Scikit-Learn, TensorFlow, MongoDB, MySQL, Firebase, Socket.io
Tools & Platforms: Git, VS Code, Android Studio, Postman, Jupyter Lab, MongoDB Compass, AWS, Azure DevOps, Cloudinary
Soft Skills: Communication, Team Collaboration, People Management, Adaptive Learning

Certifications

- Academic Brilliance Certificate — Shifa Tameer-E-Millat University (Apr. 2025)
- Machine Learning Certificate — Simplilearn, based on the Stanford/Andrew Ng curriculum (Dec. 2024)
- Internship Certificate — Royalion Developers (Nov. 2023)
- Responsive Web Design Certificate — freeCodeCamp (Feb. 2023)