

Laila-Batool

Full-Stack Developer | Gen AI Engineer | Machine Learning

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SUMMARY

Worked as a Full Stack Developer at Inotech Solutions, where I developed and contributed to multiple projects including Guestroom Management System, Tizen OS-based applications, HRMS, and Pi-Shields security dashboard. Frontend-focused full-stack engineer blending **React/Next.js, UI/UX design, and ML/AI engineering** to build production-ready products, dashboards, and SaaS systems. Employee of **Hoop Interactive**, where I build full-stack AI-powered applications, internal systems, marketing tools, and high-performance websites.

Currently building **Seo base projects**, while serving as **Technical Lead for the website Ilmulquran**, fully redesigning and rebuilding a project using **Next.js + Fast API + clean architecture + CI/CD, Prismic.io for dynamical integrations**.

My strength is owning the entire engineering lifecycle — from concept → design → React UI → APIs → cloud deployment — and shipping fast in real startup environments.

SKILLS

Frontend (Primary)

React.js, Next.js, TypeScript, JavaScript, Tailwind CSS, Redux, Modern Component Architecture, Responsive UI, SSR/SSG/ISR, API Integration, UI/UX Design (Figma)

Backend & Systems

Fast API, Node.js, Express.js, Flask, REST APIs, Microservices, Modular Architecture, WebSocket's, Real-time Data Flows

Cloud, DevOps & Databases

Vercelli, AWS, Azure, Google Cloud, Docker, GitHub Actions, CI/CD, PostgreSQL, MongoDB, MySQL, Supabase, Firebase, Redis

AI/ML Engineering

Python, TensorFlow, PyTorch, LLMs, Transformers, LangChain, RAG, OpenCV, Pandas, Applied Machine Learning Pipelines

Product, Design & Business

UI/UX Design, Figma, Adobe Suite, SaaS Architecture, E-Commerce, Digital Strategy, Creative Problem Solving, Leadership

EXPERIENCE

Full-Stack Developer

November 2024 – August 2025

Cyber div 101, GP # 804

MCS-NUST, Rawalpindi

- Building a Full stack Web & Android Applications Integrating 3rd Party APIs (**React.js, Node.js, Twilio Whatsapp API, FastAPI, MongoDB Compass**), integrating real-time IoT data from Logs Findings.
- Developed the frontend dashboards for live tracking, dashboard monitoring, logs alerts, analytics, maps, and field workflows.
- Led deployment and UI/UX OPTIMIZATION FOR PROJECTS INCLUDING Guestroom websites, Pi-shield (Android based application), Tizen OS, Human Resource Management Systems.

Rawalpindi

- Managed website design, SEO marketing, branding, and Vercel deployments using Next.js, Node.js, and Prismic CMS. Key Projects: IlmulQuran, YFCSolutions Website.
- Implemented **clean architecture**, modular APIs, database redesign, and full CI/CD pipelines.
- Completely rebuilt the IlmulQuran retail-tech platform from scratch using **Next.js (dashboards) + FastAPI (backend)**, replacing broken legacy systems.
- Led a team of developers & designers, conducting code reviews, planning sprints, and supervising architecture decisions.
- Migrated entire product to modern cloud infrastructure and introduced staging/production environments.

Python, PHP & Laravel Developer

Jun 2024 – Oct 2024

Softic Solutions

Remote , Karachi

- Built a multi-disciplinary agency delivering **AI-powered applications, full-stack web development, UI/UX design, and digital strategy**.
- Designed and built **Inventory Management systems** (PHP +Laravel + JQuery + MyphpAdmin), integrated with backend systems .Designed UI/UX and ensured optimized code deployment.
- Led cross-functional remote teams, established workflows, documentation systems, and technical direction.

LAB Researcher

Jan 2022 – Dec 2023

NCSAEL LAB

Ncsael-Lab, Mcs-Nust , RWP

- Built a multi-disciplinary agency delivering **AI-powered applications, full-stack web development, UI/UX design, and digital strategy**.
- Worked with research teams to design HRMS and Limelight Web/App interfaces using Next.js, React.js, Node.js, and Bootstrap. Deployed projects on Vercel.

PROJECTS**FYP Project – Votronic (Online Voting App & Web)**

January 2024

UET PESHAWAR

- Built an online voting systems app website using blockchain and smart contracts for real time counter voting systems .
- The online voting system is built using **React.js** for the frontend, allowing users to cast votes seamlessly through a modern interface.
- **Firebase** manages authentication and stores voter profiles, ensuring only registered users can participate.
- Votes are recorded on a **blockchain network via smart contracts**, making results tamper-proof-and-transparent.
- An admin can **start and stop voting sessions** using smart contracts, preventing votes outside the allowed time. Once the voting session ends, smart contracts automatically **finalize results**, and the data remains permanently verifiable on blockchain.

PI-Shields-Real-Time Logs Findings

June 2024

Inotech solutions

- Pi-Shields is a security monitoring project using **Raspberry Pi for real-time log capturing and analysis**.
- The system detects unusual activities and **generates instant alerts** to ensure quick response.
- A custom **Android dashboard displays live logs, status updates, and alerts visually**
- Logs from the Raspberry Pi are **processed and streamed to the app for continuous monitoring**. The solution enhances network visibility by offering **real-time threat insights and event notifications**.

IlmulQuran – seo & Marketing Platfor

Sept 2025

Your Future Campus , PVT, LTD

- IlmulQuran is an **SEO-based Islamic website** designed for Quranic learning and knowledge sharing.
- The platform features **dynamic content fetching using Prismic.io CMS**, ensuring easy updates without code changes.

- Search engine optimization techniques are applied for **high ranking and better visibility on Google**.
- The website integrates **Meta Cloud WhatsApp API** to allow users to request queries or receive updates directly.
- With modern UI and responsive design, IlmUIQuran provides **smooth access to Quranic data across all devices**.
- Established CI/CD pipelines, cloud hosting, and scalable foundations for nationwide rollout.

Guest Room Check-In / Check-out website

November 2024

- Inotech Solutions
- Developed a **Guestroom Management System** with check-in and check-out features using **React.js and Node.js** , Express.js.
 - Implemented **three user categories – Civilian, Retired, and Serving Officers** with dynamic form handling and validation.
 - Integrated **Twilio API** for automated SMS notifications during check-in and checkout processes.
 - Used **Ngrok** for secure tunneling during development and real-time testing of API endpoints.
 - Enabled seamless guest record management with **real-time status updates, room allocation, and user data tracking**.

Inventory Management System

September 2024

- Softic Solutions
- Built an Inventory Management System using PHP, Laravel, and MySQL (phpMyAdmin) for efficient product tracking.
 - Designed specifically for **managing and sending products to different companies with quantity control**.
 - Implemented features for **product stock monitoring, order processing, and tax calculations**
 - Integrated **jQuery for dynamic UI interactions**, improving user experience and form handling.
 - Enabled centralized inventory control with **real-time product updates, reporting, and record management**.

EDUCATION

Bachelors of Studies in Computer Science

September 2020 – July 2024

University of Engineering & Technology, Peshawar

Peshawar, Pakistan

Courses: Data Structures & Algorithms, Operating Systems, Software Engineering, Networking

LEADERSHIP

President

September 2020 – July 2024

UET Sports Society

Peshawar, Pakistan

- Managed **25+ events** over 4 years; led **EXPO 24** with **2,086 participants**.
- Supervised teams, negotiated sponsorships (Rs. 2.5M), executed large-scale operations.

ADDITIONAL INFORMATION

Certifications: Full Stack Developer, Complete A.I. & Machine Learning, Data Designer.

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Languages: English, Urdu, Pashto.

References

Name	Kamran-shams	–	Inotech	–	Solutions	PVT	LTD
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Hoop

PVT

LTD

Name Muzzammail-Abdur-Rehman-Interactive -
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Awards

Appraisal: Best Project (2024): Successfully developed and deployed an IoT-based project (PI Shields) at Inotech Solutions, earning an appraisal award from the GOC for outstanding performance.