

**Sahar Iqbal Malik**  
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## Professional Summary

Software Engineering undergraduate (FAST-NUCES) with hands-on experience building full-stack web applications using the MERN stack and modern React/Next.js tooling. Experienced in API development, authentication, database integration, and shipping production-ready UI. Additional exposure to applied machine learning (NLP, optimization, scikit-learn) through academic and project work. Strong product mindset with experience collaborating cross-functionally and delivering measurable user-impact outcomes.

## Skills

**Programming Languages:** JavaScript (ES6+), TypeScript, Python, SQL, C++, Java

**Frontend:** React.js, Next.js, HTML5, CSS3, Tailwind CSS, Responsive UI, SPA Architecture, shadcn/ui

**Backend:** Node.js, Express.js, REST APIs, API Integration, JWT Authentication, Sessions

**Databases:** MongoDB, MySQL, Database Design, CRUD Operations

**AI/ML:** scikit-learn, NLP, Genetic Algorithms, Optimization, Model Evaluation (Precision/Recall/F1)

**Tools & Deployment:** Git/GitHub, Postman, VS Code, Netlify, Vercel

**Concepts:** Agile/Scrum, SDLC, Authentication/Authorization, Debugging, Clean Code

## Education

### **FAST-NUCES, Islamabad**

**BS in Software Engineering | 2022 – 2026**

Relevant Coursework: Data Structures, Web Development, Databases, Software Engineering, Machine Learning

### **Westminster Academy, Islamabad**

A Levels – Maths, Physics, Computer Science (*A B B*) | 2020 – 2022

SAT: 1360

O Levels | 2018 – 2020

## Experience

### **Product Management Intern – Nayatel**

Islamabad | June 2025 – July 2025

- Collaborated with cross-functional teams (engineering/design) to define user-focused features aligned with product strategy.
- Supported roadmap planning and sprint execution using Agile/Scrum workflows.
- Conducted competitive analysis and gathered user feedback to inform prioritization and improvements.

### **Product Analyst – CodingKey**

Islamabad | Jan 2024 – Aug 2024

- Improved product feature performance across backend and frontend, contributing to ~15% retention uplift.
- Performed data analysis using SQL and Python to guide product logic and roadmap decisions.
- Coordinated between engineering and design teams to deliver functional releases under deadlines.

### **Founder & Owner – Captain Hook (E-commerce Side Hustle)**

Remote | June 2023 – Present

- Built and scaled a direct-to-consumer business to 150+ orders in the first year.
- Managed end-to-end operations including inventory, customer support, and storefront workflows.
- Applied product thinking to improve customer journey through Instagram + WhatsApp commerce.

#### **Management Intern – Specialist Care Clinic**

Islamabad | June 2020 – Aug 2020

- Managed high-volume front desk operations and improved patient intake efficiency.
- Reduced average wait time by ~20% through workflow and scheduling optimization.

### **Projects**

#### **Aegis (FYP) – React, TypeScript, Tailwind**

Built an enterprise security dashboard UI integrating ML-based IDS outputs and advisory components for threat detection workflows. Implemented modular UI components, routing, and state handling for multi-repo system integration

#### **DigiXTech – Next.js 15, TypeScript, Tailwind, shadcn/ui**

Developed a production-ready Next.js starter template designed for SaaS dashboards and internal admin tools. Implemented reusable UI components, responsive layouts, and scalable structure for rapid development.

#### **AI Agent for Disaster Volunteer Allocation – Python, Streamlit**

Created an optimization-based allocation engine and dashboard to distribute volunteers/resources across zones. Designed interactive UI and logic for real-time configuration and scenario testing.

#### **Secure End-to-End Encrypted Messaging Platform – React, Node.js, Web Crypto**

Built E2EE messaging and file-sharing system using AES-256-GCM and ECDH (P-256) key exchange. Implemented ECDSA signatures, nonce management, and threat-model-aligned security flows.

#### **Purrfect Match – MERN Stack**

Developed full-stack pet adoption platform with authentication, pet listings, and filtering/search features. Implemented REST APIs with Node/Express and MongoDB for scalable CRUD operations.

#### **CineMatch – Python, NLP, Genetic Algorithms**

Built a recommendation system combining sentiment analysis and evolutionary optimization for personalized results. Evaluated performance and improved recommendation relevance using experiment-based tuning.

### **Leadership & Activities**

#### **Co-Vice Head, Girls Volleyball – FAST-NUCES (Aug 2024 – September 2025)**

Led a 10+ member team, fostering team coordination and discipline.

#### **Vice President, Management – Sustainable Development Society**

Organized large-scale awareness events and led operational logistics.

#### **Marketing Team Member – NASCON 2024**

Contributed to one of Pakistan's premier student-led tech and sports fests.