

KHANSA EHSAN

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PROFESSIONAL SUMMARY

A motivated full stack developer with 2 year of experience and a strong background in the MERN stack. Has built full web applications from start to finish, including e-commerce sites, REST APIs with JWT authentication, and real-time features. Dedicated to clean architecture, good performance, and shipping code that is ready for production.

TECHNICAL SKILLS

- **Frontend:** React.js, Angular 22, TypeScript, Redux Toolkit, RxJS, Reactive Forms, Angular Router, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Bootstrap, SCCS
- **Backend:** Node.js, Express.js, REST API design, JWT authentication, bcrypt, multiple email providers, Arcjet
- **Database:** MongoDB, Mongoose, Microsoft SQL Server, Azure SQL Database, Sequelize ORM, Firebase
- **Security & Rate-Limiting:** JWT in HttpOnly cookies, CORS, Zod validation, bcrypt, Arcjet rate-limiting and bot detection
- **Tools & DevOps:** Azure App Service, Azure SQL Database, mssql, Vercel, Render, Netlify, Git, GitHub, Postman, node-cron, Upstash, HTTPie, Vercel, Netlify, Render, Figma (UI design), Google Analytics, npm, nvm
- **CMS/SEO:** WordPress, plugins (WooCommerce, Elementor), Framer, SEO Optimization, Backlinks
- **Practices:** Responsive Design, STAR-based Problem Solving, Agile/Scrum, Clean Code
- **Learning:** TypeScript (advanced), Docker, Python

PROJECTS

AI-Powered Flowchart and Wireframe to Code Platform

React Flow, Konva.js, and AI Integration

React, Node.js, Express, MongoDB,
| **Final Year Project**

- Used React Flow to make a flowchart editor that lets you drag and drop things around, and Konva.js to make a wireframe editor and prompt to code workspace.
- Generated code for Python, JavaScript, C++, and HTML/CSS with automatic formatting
- Added an AI chat assistant to help with code improvement, debugging, and explanations
- Deployed the full-stack app on Vercel (frontend) and Render (backend) with multi-language support.

University Resource Hub

SQL, Sequelize, JWT

Angular 22, TypeScript, Node.js, Express, Azure
(2026)

- Built a full-stack lab and equipment booking system for search, booking, approval, and check-in.
- Designed a role-based system with three roles (Student, Teacher, Admin) - each role sees different pages and can do different actions.
- Built booking validation that blocks time clashes, adds users to a waitlist, and automatically promotes the next person when a slot opens up.
- Added QR code check-in, automatic no-show release, and a node-cron scheduler that runs cleanup jobs every minute.
- Secured the API with JWT in HttpOnly cookies, Zod input validation, bcrypt password hashing, and CORS rules.

Subscription Tracker API

Arcjet, Render, Upstash, Stripe

Node.js, Express.js, MongoDB, JWT, Brevo,
(2025)

- Production REST API with 10+ endpoints for the full subscription lifecycle — create, renew, and cancel — secured with JWT and refresh-token rotation.
- Built an automated email reminder pipeline with Brevo and Upstash that sends alerts 3, 7, and 10 days before renewal.
- Added Arcjet middleware for per-IP rate limiting and bot detection to block brute-force and scraping attacks.

Personal Portfolio

React, Tailwind CSS, React Helmet
Deployed on Netlify (2024)

- Created a fully responsive portfolio with mobile-first layout, SEO meta tags, and a contact form.

WORDPRESS E-COMMERCE SITE	(2023)
• Custom WooCommerce store with Elementor • SEO optimized (90+ PageSpeed, meta tags) • Plugin customization + theme development	

EDUCATION

B.S. Computer Science University of the Punjab, Lahore	<i>2022 – 2026 (In Progress)</i>
GPA: 3.52 / 4.0 Relevant: Web Engineering, Data Structures, OOP, Software Engineering	

CERTIFICATION & LANGUAGES

Full Stack Developer Certification (A+ Grade)	(2024)
English: Professional Urdu: Native	