SYED SHAHEER AHMED

Full-Stack Developer (MERN) | Computer Systems Engineer

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PROFESSIONAL SUMMARY

Full-Stack MERN Developer and Computer Systems Engineering graduate who builds and deploys production-ready web applications with React.js, Next.js, Node.js, Express.js, and MongoDB. Skilled in RESTful API development, secure authentication (JWT, OAuth 2.0), real-time features with Socket.io, and responsive UI with TypeScript and Tailwind CSS. Completed three internships in full-stack development, front-end development, and web development training. Seeking a Full-Stack Developer or MERN Stack Developer role.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, C++, HTML5, CSS3

Frontend: React.js, Next.js (App Router), Redux Toolkit, Context API, React Router, Tailwind CSS, GSAP, Recharts, Vite, Responsive Web Design

Backend & Database: Node.js, Express.js, RESTful APIs, Socket.io (WebSockets), MongoDB, Mongoose, MongoDB Atlas, Aggregation Pipeline

Auth & Security: JWT (httpOnly cookies, refresh-token rotation), OAuth 2.0 (Passport.js), bcrypt, Clerk, Role-Based Access Control, Rate Limiting

Tools & Deployment: Git, GitHub, Postman, Axios, Cloudinary, Vercel (serverless functions), dotenv

Core CS & Embedded: OOP, Data Structures & Algorithms, Arduino, Raspberry Pi, IoT, AI/ML Fundamentals

Soft Skills: Team Collaboration, Problem Solving, Communication, Teaching & Mentoring, Time Management

EXPERIENCE

Full Stack Development Intern | CodeAlpha **Sep 2026 – Oct 2026**

Remote

- Built and deployed three full-stack MERN applications (Orbit, Pulse, E-Commerce Store), each documented on GitHub with a video walkthrough.
- Designed secure RESTful APIs with Node.js, Express.js, and MongoDB using JWT httpOnly-cookie authentication, bcrypt, input validation, and role-based access control.
- Implemented real-time collaboration with Socket.io and responsive React + Tailwind CSS interfaces; awarded a Letter of Recommendation.

Front-End Development Intern | Cloud Nine Webbers **Jun 2026 – Jul 2026**

On-site, Karachi

- Built responsive user interfaces and reusable UI components with React.js, Next.js, and TypeScript.
- Implemented smooth, performant animations and interactions using GSAP.
- Worked within a production-grade team workflow using Git version control and industry best practices.

Web Development Instructor (Intern) | Techzone Learning **Apr 2026 – Jun 2026**

On-site, Karachi

- Taught HTML5, CSS3 (Flexbox, responsive design), and JavaScript fundamentals to beginner students through hands-on projects.
- Reviewed student code one-on-one, explained mistakes clearly, and coached students to debug their own work.

PROJECTS

Orbit – Real-Time Project Management Tool | *React, Node.js, Express.js, MongoDB, Socket.io, Tailwind CSS*

- Trello-style app with group projects, owner/admin/member roles, task assignment, and comment threads; Socket.io syncs drag-and-drop, comments, typing indicators, presence, and notifications live.
- GitHub: github.com/devshaheerx/CodeAlpha_ProjectManagementTool

Ledger – Expense Tracker | *React, Redux Toolkit, Node.js, Express.js, MongoDB, Passport.js*

- Email OTP verification, Google/GitHub OAuth, and JWT refresh-token rotation with multi-device sessions; MongoDB aggregation pipelines power spending insights and budget alerts. Deployed on Vercel.
- GitHub: github.com/devshaheerx/expense-tracker

Pulse – Social Media Platform | *React, Node.js, Express.js, MongoDB, Cloudinary*

- User profiles, Cloudinary image posts, comments, likes, follows, personalized feed, and notifications, secured with JWT auth, bcrypt, and ownership checks.
- GitHub: github.com/devshaheerx/CodeAlpha_SocialMediaPlatform

Snip – URL Shortener | *React, Node.js, Express.js, MongoDB*

- Custom aliases, link expiration, and click analytics via a MongoDB-backed REST API; backend deployed as a serverless Express service.
- GitHub: github.com/devshaheerx/snip-url-shortener

E-Commerce Store | *React, Node.js, Express.js, MongoDB*

- Product listings, product pages, shopping cart, order processing, and JWT-secured user login with dark/light mode.
- GitHub: github.com/devshaheerx/CodeAlpha_EcommerceStore

Frontend Projects

- **Brand Shop** (Next.js 16, Clerk): e-commerce storefront with persistent cart, live search, and category filters.
- **Kanban Board** (React, Redux Toolkit, Recharts): multi-board drag-and-drop task manager with progress tracking.
- **Habit Tracker** (React, Context API, Recharts): streak calculation, progress charts, and per-user persistence.

UNIVERSITY PROJECTS

HydroBin X – Autonomous Waste-Collecting Robot (Final Year Project) **Sep 2025 – Jul 2026**

- Built an Arduino-based RC prototype with a mobile app, motor control, and a conveyor-belt mechanism for collecting floating waste from urban creeks.
- Upgraded it to a semi-autonomous robot with encoder-based odometry, route mapping, obstacle avoidance, and a load-cell "Bin Full" alert.
- Presented at the 41st All Pakistan IEEEP Students' Seminar 2026; project demo reached 80,000+ views on LinkedIn.
- **Other:** Underwater Acoustic Detection System (Runner-Up), Theft Detection System (Raspberry Pi, PIR sensor, email alerts), Line Following Robot (IR sensors), C++ Music Playlist App (doubly linked list).

EDUCATION

B.E. Computer Systems Engineering | Muhammad Ali Jinnah University (MAJU) **Sep 2022 – Aug 2026**
CGPA: 3.35 / 4.00 | Final Semester GPA: 4.00 / 4.00

Intermediate (Pre-Engineering) | Fatimiyah Boys College **2020 – 2022**
81% (A-One Grade) | 3rd Position in Class, First Year (85%)

Matriculation (Computer Science) | VMT Schooling System **2020**
80%

CERTIFICATIONS

- Full Stack Development Internship – Certificate & Letter of Recommendation, CodeAlpha (2026)
- Front-End Development Internship – Completion Certificate, Cloud Nine Webbers (2026)
- Introduction to Internet of Things, Cisco Networking Academy (2025)
- Python Essentials 1 & 2, Cisco Networking Academy & OpenEDG Python Institute (2023–2024)

HONORS & AWARDS

- Presenter, 41st All Pakistan IEEEP Students' Seminar 2026 (HydroBin X)
- Runner-Up with Cash Prize, Semester Project Exhibition, MAJU (Underwater Acoustic Detection System)
- Perfect 4.00 / 4.00 GPA in Final Semester, B.E. Computer Systems Engineering
- 3rd Position in Class with Cash Prize (PKR 5,000), First Year, Fatimiyah Boys College

LANGUAGES

English (Fluent) | Urdu (Native)