

Hammas Rashid

Full Stack Developer

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Rawalpindi, Pakistan

Professional Summary

Full Stack Developer with 3+ years of experience across full-time and part-time roles, building scalable, secure web applications with React.js, Next.js, Node.js, NestJS, PostgreSQL and MongoDB. Currently contributing to enterprise products at NextByte, including an IoT fleet telematics platform that ingests live GPS and sensor data from field devices, a transport management system (ERP/TMS) and a real-time work management system. Previously led the development of a production ERP used across multiple departments and user roles, cutting payroll and fee processing from hours to minutes. Strong in real-time systems (WebSockets), authentication and role-based access control, and taking features from API design through deployment.

Technical Skills

- **Languages:** JavaScript (ES6+), TypeScript, Python, HTML5, CSS3, SQL
- **Frontend:** React.js, Next.js, React Native (Expo), Redux, Zustand, Context API, Tailwind CSS, Material UI, Radix UI, Bootstrap
- **Backend & Databases:** Node.js, NestJS, Express.js, RESTful APIs, PostgreSQL, MongoDB (Mongoose), Prisma, Redis, WebSockets, Socket.IO, Cron Jobs (node-cron)
- **Authentication & Security:** JWT, OTP Verification, Role-Based Access Control (RBAC), Multi-Tenant Access, Auth Middleware
- **Integrations & Services:** Stripe, Cloudinary, LiveKit, Nodemailer, ExchangeRate API, IoT Device Ingest (TCP), Web Scraping (Playwright, BeautifulSoup)
- **Tools & Deployment:** Git, GitHub, Postman, VPS Deployment, Vercel, Netlify, npm, VS Code, Claude Code, Cursor, Codex, MongoDB Compass

Education

BS Computer Science - COMSATS University Islamabad, Attock Campus Feb 2021 – Jan 2025

- CGPA: 3.14/4.00 | Final Year Project: E-commerce Assistant App with data scraping and product recommendations

Professional Experience

Full Stack Developer - NextByte Pvt. Ltd., Islamabad (On-site) Nov 2025 – Present

- Contribute to a multi-tenant Fleet Telematics SaaS (Next.js, NestJS, PostgreSQL, Prisma, Redis): live GPS tracking, device data ingest, maps, geofences and alerts
- Worked on vehicle, driver and device workflows and the tenant and admin portals, with role-based access and operational dashboards
- Contribute as part of the team to a large-scale ERP and Transport Management System (TMS) for trucking operations
- Contribute to a Work Management System: attendance, real-time time tracking, SLA automation and LiveKit video meetings
- Work across the stack on other NextByte products, from API and UI development through VPS deployment

Full Stack Developer - Outsourced Projects (Part-time, Remote) May 2023 – Present

- Deliver MERN stack web applications and React Native mobile apps for outsourced client projects, from requirements to delivery

Full Stack Developer - EFM Pvt. Ltd., Rawalpindi (Contract, On-site) Feb 2025 – Jul 2025

- Led development of a custom ERP, now live in production and used by multiple departments, replacing an educational institute's spreadsheet and paper-based workflows
- Built role-based portals for Admin, Manager, Supervisor, Teacher, HR, CSR and Parent users, secured with OTP login, JWT and RBAC
- Automated salary and fee challans with bonuses, deductions and live currency conversion (ExchangeRate API), cutting processing from hours to minutes
- Added node-cron jobs for recurring schedules, conflict detection and cleanup, plus WebSocket announcements and live dashboards
- Built attendance with CSV bulk import, Cloudinary media uploads and a reusable Material UI component library

Full Stack Developer - AxthTech (Part-time, Remote) Sep 2024 – Feb 2025

- Developed the AxthTech Software House business website with React.js, React-Bootstrap, Node.js, Express.js and MongoDB
- Managed the full project lifecycle, from requirement analysis to deployment, consistently meeting deadlines
- Delivered optimized, user-friendly interfaces with cross-browser compatibility

React Developer Intern - CodexCue Software Solutions (Remote) Aug 2024 – Sep 2024

- Built React.js interfaces integrated with REST APIs

Full Stack Developer Intern - Prodigy InfoTech (Remote) Jul 2024 – Aug 2024

- Built an employee management system, an e-commerce store with payment processing and a real-time chat application
- Developed Progressive Web Apps, including a Tic-Tac-Toe game with an AI opponent using the minimax algorithm

Web Frontend Developer Intern - Orbixsol Software House, Rawalpindi (On-site) Jul 2022 – Sep 2022

- Developed responsive web applications using HTML5, CSS3 and JavaScript with consistent cross-device performance
- Collaborated with designers and developers to deliver cohesive, user-friendly interfaces

Key Projects

Fleet Telematics Platform (Team, NextByte) | Next.js, NestJS, PostgreSQL, Prisma, Redis

- IoT-based multi-tenant GPS SaaS: live fleet maps, TCP ingest from hardware devices, geofences, fuel monitoring, cameras, tachograph and alerts
- Vehicle, driver and device flows plus tenant and admin portals with role-based access and operational dashboards

ERP / TMS - Transport Management System (Team, NextByte)

- Large-scale ERP and transport management platform for trucking operations, developed as part of a cross-functional team

WMS - Work Management System (Team, NextByte) | Next.js, NestJS, PostgreSQL, Radix UI, WebSockets

- Attendance, idle-aware real-time time tracking, AI-driven performance monitoring and SLA automation
- LiveKit video meetings, collaborative whiteboards and multi-channel integrations

ERP System for EFM Pvt. Ltd. | React.js, Node.js, Express.js, MongoDB, Material UI, WebSockets, node-cron, VPS

- User and role management, attendance, fee and salary processing, automated scheduling and real-time dashboards for multiple user

- roles
 - OTP and JWT login, role-based access, WebSocket notifications, Cloudinary uploads and a parent portal
- E-commerce Assistant Mobile App** (Final Year Project) | React Native, Node.js, Express.js, MongoDB, Stripe, Python, Playwright
- Combines scraped external product data, refreshed hourly, with an internal store and a seller dashboard
 - JWT and OTP authentication, personalized recommendations, product comparison, cart and wishlist
 - Stripe and cash-on-delivery checkout, with real-time order notifications for customers and sellers
- AI-Powered Intelligent Traffic Signal System** | Python, Flask, PyTorch, OpenCV, React.js
- AI-driven traffic management using computer vision for vehicle detection and dynamic signal timing
 - React dashboard on Flask APIs to visualize detections and signal decisions
- HuntChat - Real-time Chat Application** | MERN Stack, Socket.IO, Cloudinary
- Secure chat platform with group and private messaging, OTP verification and a scalable Socket.IO architecture
 - Cloudinary media uploads and real-time delivery for private and group conversations
- CyberShield Social Media App** | React Native, Cloudinary, Push Notifications
- Full-stack social networking app with profiles, friend connections and in-app messaging
 - Cloudinary media uploads and push notifications for engagement and updates

Additional Notable Projects

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| • Otter Transcription Frontend (React) | • Local E-commerce (MERN, Nodemailer) |
| • FreshCart Website (HTML5/CSS3) | • Tic-Tac-Toe AI (React, Minimax) |
| • Weather PWA (React, API) | • BenAmbros Portfolio (HTML5/CSS3) |
| • Blog Platform (React, CRUD) | • Marketing Landing Page (HTML5/CSS3) |
| • Portfolio Website (MERN, PWA) | |

Certifications and Achievements

- **Winner, Code Debugging Competition** – COMSATS Freelancing Society (Apr 2022)
- **Full-Stack Web Development** – Prodigy InfoTech (Aug 2024)
- **Introduction to Career Skills in Software Development** – LinkedIn Learning (Mar 2025)
- **Hands-On Introduction: React** – LinkedIn Learning (Mar 2023)
- **Programming in HTML5 with JavaScript and CSS3** – Udemy (Aug 2022)
- **Frontend Developer, Google Developer Student Club** – COMSATS University Islamabad, Attock (Sep 2023 – Nov 2024)

Additional Information

Portfolio: hammas.dev (live demos, GitHub repositories and project showcases) | **Languages:** English (Professional), Urdu (Native)