

SHAMSULLAH FAYZI

Full-Stack Developer

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PROFILE

full-stack developer who takes products from idea to deployment: database design, APIs, web and desktop interfaces, AI features and real-time 3D. Recent work includes an on-premise hospital management system with 30+ API modules, a face-recognition attendance system with 98% accuracy, and AI document scanning that cut a travel agency's manual processing time by 75%. Builds bilingual, right-to-left interfaces as standard, and treats security, reliability and clean architecture as part of the job

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, C#, Java, Go, SQL

Frontend: React, Next.js, Angular, Vue, Blazor (.NET 8), Tailwind CSS, MUI, Chakra UI, Redux, TanStack Query

Backend: Node.js, NestJS, Express, FastAPI, ASP.NET Core, REST APIs, JWT authentication, role-based access control

Databases: PostgreSQL, SQL Server, MySQL, MongoDB, Oracle, Prisma, Firebase, Supabase

AI / ML: LLM integration, RAG pipelines, Hugging Face, prompt engineering, MCP services, Azure AI Document Intelligence, OCR (Tesseract), face recognition

3D & Devices: Three.js, React Three Fiber, Web Bluetooth

Desktop & DevOps: Electron, JavaFX, Docker, Caddy, Linux, Azure, Git, GitHub, CI/CD

FREELANCE & PROJECT WORK

Self-employed full-stack developer, 2024 – present. Client work and independent products, built alongside full-time university study.

REDMARS: Hospital Management System | Independent product 2026

NestJS, Prisma, PostgreSQL, React 19, TanStack Query, Docker, Caddy [GitHub](#)

- Designed and built a bilingual (Dari/English, full RTL) on-premise outpatient system with a Kabul hospital as design partner, covering registration, doctor queues, consultation, lab, billing, pharmacy and reports.
- Modelled a 47-table PostgreSQL schema and 30+ NestJS API modules; enforced 6 roles and about 60 permissions on the server, with an audit trail of every write and every read of a medical record.
- Added patient-safety rules: allergy hard-blocks at prescribing (override requires a written reason) and drug-interaction warnings.
- Load-tested 40 concurrent patients, found and fixed database connection-pool exhaustion, and shipped as Docker containers behind HTTPS with nightly backups and a verified restore.

Al-Raheel Travel Agency System | Client project 2026

Blazor (.NET 8), Entity Framework Core, PostgreSQL, ASP.NET Identity, Azure AI Document Intelligence, Tesseract OCR

- Replaced the agency's Excel-based customer and booking process with a web system, cutting manual processing time by 75%.
- Automated customer data entry by extracting passport and ID details from scanned documents with Azure AI Document Intelligence and Tesseract OCR.
- Built a layered architecture (repositories, services, AutoMapper) on PostgreSQL, using triggers and views for complex queries, with role-based sign-in.

AI Attendance System | Team lead, university project

Python, face recognition, live camera input

- Led a team of 3 to build an attendance system that recognizes students' faces from a camera feed and marks attendance with 98% accuracy.

- Designed multi-class support with separate rosters per section, and owned the architecture and integration of the recognition module.

Solar Taxi Roof Sign | Product prototype 2026

React 19, React Three Fiber, Three.js, Zustand, Web Bluetooth [GitHub](#)

- Built a phone controller and a real-time 3D model of a solar LED roof sign for shared taxis, showing destination, fare and free seats.
- Designed a Bluetooth transport layer that mirrors the Web Bluetooth API, so the simulator and real ESP32 hardware swap without UI changes, with PIN pairing and lockout handled by the device.

Trendora: E-commerce Platform | Team lead

2024

React, Next.js, MUI, Redux, Python (FastAPI), SQLAlchemy, SQL Server

- Led a team of 3 to build a full-stack store where customers buy and sellers manage their own products.
- Built the FastAPI backend with bcrypt password hashing, JWT sessions in httpOnly cookies and separate customer and seller roles.
- Implemented product search, filtering and cart workflows across hundreds of demo products and multiple sellers.

Prescription Management App | Client project

2025

Java, JavaFX

- Built a desktop app that doctors use to write prescriptions faster, picking medicine names, dosage, frequency and quantity instead of writing them by hand.
- Adopted by several doctors, improving their clinical workflow.

Zoya Clinic | Client project

2024

Angular 16, Angular Material, RxJS, JWT, ApexCharts [GitHub](#)

- Built a patient registration and appointment-tracking app for a private clinic, with JWT login, role-guarded routes, an auth interceptor and admin dashboards.

Zombie Typing | Game

2026

React 19, Tailwind CSS, Netlify [GitHub](#)

- Built a typing game with live WPM and accuracy, a leaderboard and original characters and sound.
- Wrote a pooled audio engine so rapid sound effects overlap cleanly, and made the game scale to any screen from laptop to 2560px.

Job Center | Web app

2026

React 19, React Router, Tailwind CSS [GitHub](#)

- Built a two-sided job board: seekers browse and apply, employers post jobs and review applicants, with reducer-based state and a storage layer ready to swap for a real API.

Also built: MusicMingle, an event booking site with an admin back office (ASP.NET Core 9, EF Core, Identity). Code for all public projects: github.com/shamsullahfayzi.

EDUCATION

B.Sc. Computer Engineering | Kardan University, Kabul

Expected April 2028