AYSHAM HAMEED

Full-Stack Software Engineer

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SUMMARY

Full-stack software engineer with 4 years of experience building and shipping production software in C#/.NET and TypeScript. I build complete products end to end, from database schema and APIs to user interface, background jobs, CI/CD and cloud hosting. My work spans real-time IoT and energy platforms, multi-tenant SaaS, point of sale and accounting, streaming, e-commerce and internal tools. I work well in remote, distributed teams and care about clean architecture, observability and code other developers can pick up easily.

EXPERIENCE

Full-Stack Software Engineer, Savtech Sep 2025 - Present · Remote

LiquidInsights · *multi-tenant IoT and energy operations platform · .NET 8, ASP.NET Core, EF Core, SQL Server, SignalR, Hangfire*

- Build and maintain a platform of four cooperating services (web app and API, event engine, MQTT ingestion agent, HTTP ingestion agent) used by energy and utility operators to monitor device fleets.
- Develop telemetry ingestion from LoRaWAN sensors (ChirpStack), direct MQTT over TLS, REST batch APIs and Teltonika GPS trackers, with per-device field mapping, synthetic variables and raw payload storage.
- Build a push-driven event engine with a visual drag-and-drop rule designer: ON, repeat and return-to-normal alerts, clear delays, and dispatch by email, WhatsApp Business, Telegram and push notifications on Hangfire queues, with WhatsApp delivery reports.
- Deliver a dashboard builder with 35 widget types streamed live over SignalR, public share links, SCADA-style diagrams, and energy, wind, condition and GPS tracking views.
- Implement work orders (tasks, comments, attachments, activity logs, templates, mass import), preventive maintenance schedules, and parts inventory consumed when work completes.
- Build a workflow designer with approvals and an inbox, closing the loop from alarm to an assigned, completed and signed-off work order.
- Work across multi-tenancy, tenant onboarding, subscription plans and permissions, roles, teams, customers and functional-location asset hierarchies, plus 2FA, audit logs, system health and Telegram outage alerts.
- Integrate a Claude-powered AI assistant with streaming chat, AI-assisted rule creation and incident analysis.
- Maintain 260+ xUnit tests and per-service Azure Pipelines CI/CD with EF Core migrations.

Nako · *multi-app business platform · React, Vite, Tailwind, Zustand, Express, Prisma, PostgreSQL, Capacitor*

- Build a multi-tenant platform where each company enables Delivery, CRM, EMS and Billing apps over one shared people directory, permission system and client record.
- Delivery: projects and nested tasks, a Gantt timeline with dependencies and baselines, workload and SLA risk boards, MS Project import, budget tracking and an AI planning assistant that proposes changes for a person to confirm.
- CRM pipeline, forecasting and stage history; EMS leave under South African rules, payslips, claims and review cycles; billing generated from tracked time; Excel and CSV reporting; Android app via Capacitor.

Full-Stack Software Engineer, Codeflux Feb 2024 - Aug 2025 · Remote

- Delivered scalable .NET Core and Blazor applications on SQL Server, containerised with Docker and deployed to Azure.
- Built RESTful Web APIs on a clean, layered architecture connecting front-end clients to back-end services.

Programming Lecturer, Eduvos 2024 - 2025 · On campus

- Taught Java and PHP programming, from fundamentals to building complete applications.
- Explained technical decisions clearly and modelled readable code that other developers can pick up and maintain.

Junior Software Engineer, AE Wiring 2023 · On site

- Built internal .NET web tools used by the operations team.

Junior Front-End Developer, Vaimo 2023 · Remote

- Built and maintained Magento e-commerce front-ends.

SELECTED PROJECTS

SkyPos · *cloud POS, repairs and accounts SaaS* spos.co.za
Next.js 16, TypeScript, Supabase, Postgres, Drizzle, Tauri, Expo, Paystack

- Point of sale with split payments, printable quotes and EFT slips; repair jobs with customer e-signatures and warranties.
- Stock, stocktakes, purchase orders and suppliers; a device catalogue with AI-assisted extraction; trade-ins and parts.
- Payroll, cash-ups, accounting books with statements and period locking, expenses and reports with Excel and PDF export.
- Multi-branch shops, Paystack subscriptions, Telegram and WhatsApp reports, Google Drive backups, an offline Windows desktop app (Tauri) and an Android app (Expo).

Shazflix · *private family streaming platform*
Next.js 16, React 19, Neon, Drizzle, Cloudflare R2, WebAuthn, Vercel, GitHub Actions

- Invite-only accounts with magic links, passkeys, Argon2id passwords and profile PINs.
- Parallel multipart uploads to Cloudflare R2, presigned playback, subtitles and resume-where-you-left-off.
- Synced watch-together Screening Rooms with chat built on Postgres, a TV app with code pairing, voting charts and requests.

Savoury Nook · *restaurant ordering and CMS*
Next.js, Supabase (Postgres, Auth, Storage, Realtime), Yoco, Recharts

- Online ordering with cart, delivery or collection, Yoco card payments and order tracking.
- Admin CMS with real-time orders, revenue analytics and CSV export, an inbox, editable site content and MFA.

WLYN · *headless Shopify storefront*
Next.js, TypeScript, Shopify Storefront API (GraphQL), Framer Motion

- Personalised-jewellery store with engraving previews, customer accounts, wishlist, reviews and search, with content managed through Shopify metaobjects and webhook revalidation.

SKILLS

Languages: C#, TypeScript, JavaScript, SQL, Java, PHP
Back-end: .NET 8, ASP.NET Core (Web API, Razor Pages), Entity Framework Core, LINQ, SignalR, Hangfire, Serilog, Node.js, Express, REST API design
Front-end: React, Next.js, Blazor, Tailwind CSS, Zustand, Framer Motion, HTML, CSS
Mobile and desktop: React Native (Expo), Capacitor, Tauri
Databases: SQL Server, PostgreSQL, Supabase, Neon, MongoDB, MySQL, Prisma, Drizzle ORM
IoT and integrations: MQTT, LoRaWAN (ChirpStack), Teltonika, WhatsApp Business API, Telegram, Paystack, Yoco, Shopify, Cloudflare R2
Cloud and DevOps: Azure, Azure Pipelines, Docker, Vercel, IIS, Git, GitHub Actions, Linux
AI: Claude API, OpenAI API, LLM feature integration
Practices: Clean Architecture, multi-tenant design, CI/CD, automated testing (xUnit, Vitest), Agile/Scrum, code reviews

EDUCATION

BSc Information Technology (Software Engineering), Eduvos 2020 - 2022
Graduated Magna Cum Laude.

Higher Certificate in Information Systems, Pearson Institute 2018 - 2019
93% average.

National Senior Certificate, Stirling High School 2013 - 2017
Distinctions in IT and CAT.