

Malik Hashir

Full-Stack Developer

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PROFESSIONAL SUMMARY

Founder and full-stack developer at Magnotek, building shipped CRM, automation, finance, AI, and real-time web products for business users. Currently advancing low-level systems and AI application work at 42 Abu Dhabi, with hands-on experience across TypeScript, React, Node.js, Firebase, WebSockets, Docker, and C/C++ systems programming.

TECHNICAL SKILLS

Automation & AI: OpenAI API, LangChain, Playwright, OCR/Data Extraction, Workflow Automation, NLP Workflows

Backend: Node.js, Fastify, Express.js, REST APIs, WebSockets, Socket.io, JWT, Prisma ORM

Databases: Firebase Firestore, MongoDB, SQLite, Prisma ORM

DevOps & Cloud: Docker, NGINX, Linux/UNIX, Git, GitHub, Vercel, Makefiles, Shell Scripting

Frontend: React, Next.js, Expo, Responsive UI, Component Architecture, Browser APIs, HTML/CSS

Languages: TypeScript, JavaScript, SQL, Python, C, C++, HTML/CSS, Bash

EXPERIENCE

Full-Stack Software Engineer (Freelance) 2024 - Present

Independent Client Projects — Abu Dhabi, UAE

- Delivered custom business applications and automation platforms for SMEs across operations, finance, and customer management.
- Built custom web applications with React, TypeScript, Firebase, and Node.js to digitize order, sales, purchase, reporting, and customer-record workflows.
- Designed workflow automation solutions that reduced manual data entry and improved operational efficiency.

Sales Executive 2020 - 2022

Al Silla Al Amira LLC — Abu Dhabi, UAE

- Handled customer discovery, sales conversations, and requirements clarification for daily business operations, strengthening stakeholder communication and needs analysis.
- Translated customer pain points into clear operational requirements, a foundation now used when scoping CRM, automation, and client software projects.

Event Operations / On-Site Technical Support 2023 - 2025

Etihad Arena & ADNEC — Abu Dhabi, UAE

- Provided on-site technical operations support for access-control, scanning hardware, and entry-device workflows during large-scale live events.
- Monitored event-floor systems, coordinated issue escalation, and helped keep guest-entry technology running smoothly under high-pressure conditions.

PROJECTS

MINA GAMES - ft_transcendence Multiplayer Platform Product Owner / Full-Stack Engineer

42 Abu Dhabi

- Led product planning and full-stack development for a 4-person real-time multiplayer platform with matchmaking, tournaments, profiles, and WebSocket-based gameplay.
- Developed frontend architecture using TypeScript and a custom JSX runtime with hooks and custom routing, optimizing interface performance.
- Architected backend systems using Fastify, WebSockets, Prisma, Docker, and NGINX, achieving real-time state sync with optimized low latency.
- Coordinated product milestones, database schemas, and feature integration across a 4-person development team from inception to final delivery.

Reactor — TypeScript SPA Framework & Rendering Engine TypeScript, JSX Runtime, Routing, Rendering Engine

- Engineered a lightweight frontend framework from first principles to eliminate heavy library dependencies and gain fine-grained control over rendering lifecycles, featuring a custom JSX runtime, hooks system, and file-based routing.
- Built core framework infrastructure including state management, effect scheduling, route-scoped state isolation, dynamic routing, and component lifecycle management without third-party libraries.
- Developed a complete rendering pipeline supporting function components, refs, fragments, route transitions, and reactive navigation while maintaining a minimal bundle footprint.
- Designed the framework to power real-time applications requiring predictable rendering behavior, performance, and full control over frontend architecture.

OpsFlow - Business Operations Automation Platform JavaScript / Firebase / WhatsApp Automation

- Built custom CRM and ERM workflows using React, JavaScript, and Firebase to automate order tracking, purchases, balance sheets, and sales reporting, replacing manual spreadsheets.
- Designed and implemented WhatsApp-style automated customer broadcasting and menu-planning flows, significantly reducing manual communication updates.
- Mapped operational requirements from direct stakeholder interviews into structured data schemas and modular application logic.

FinanceSmith — Financial Operations & Workflow Management Platform Finance Operations, Reporting, PDF/Excel Automation

- Developed a finance and operations management platform for educational institutions, centralizing invoices, financial records, and operational workflows into a unified system.
- Built end-to-end tracking for monthly transactions, invoices, and financial activities with searchable historical records and automated PDF/Excel report generation.
- Digitized manual finance processes by capturing, storing, and managing financial data through structured workflows, improving visibility, reporting, and record retrieval.

Traverse — AI-Powered Tourism Discovery Platform TypeScript, Node.js, AI, Analytics

- Developed an AI-powered travel discovery platform that delivers personalized destination, restaurant, and cafe recommendations across all seven Emirates of the UAE.
- Built recommendation and analytics systems that leverage user preferences and behavioral trends to surface relevant experiences and identify popular tourism hotspots.
- Integrated data-driven ranking and personalization mechanisms to improve travel planning and destination discovery across the UAE.

UI Analyzer — AI-Powered Design Intelligence Platform AI, Computer Vision, Design Systems, Automation

- Developed an AI-powered UI analysis platform that automatically identifies interface components, detects usability and design weaknesses, and generates actionable improvement recommendations.
- Integrated self-hosted and fine-tuned AI models to evaluate layouts, design consistency, user experience patterns, and component structures without relying on third-party AI services.
- Built automated design auditing workflows to help teams improve UI quality, maintain consistency, and accelerate design reviews.

EDUCATION

Master's in Software Development & AI Applications 42 Abu Dhabi — Low-Level Systems & AI — 2024 - Present

BSc Creative Computing (Hons) - Web, Games & Cybersecurity Bath Spa University — 2020 - 2023