MATT WILSON

Senior Full Stack & AI Engineer

TYPESCRIPT · REACT NATIVE · NEXTJS · NESTJS
PYTHON · AI/ML · AZURE · DOCKER

✉ mattwilsonbusiness25@gmail.com   📞 07624337165   in LinkedIn   ○ GitHub

PROFILE

I'm a full stack engineer with 4 years of production experience building and shipping complex web and mobile applications. I specialise in TypeScript across the full stack — Next.js, NestJS, React Native — with Azure cloud infrastructure and a strong focus on AI engineering.

TECHNICAL SKILLS

Languages	TypeScript (strict), JavaScript, Python
AI / ML	Anthropic API, LLM integration, RAG pipelines, ChromaDB, vector databases, Claude MCP, n8n, multi-tier LLM routing
Frontend	Next.js 15, React 19, React Native (Expo), Svelte, TanStack Query, Tailwind CSS
Backend	NestJS, Node.js, Flask, REST APIs, GraphQL, Prisma ORM, SQL Server, PostgreSQL
Cloud & DevOps	Azure App Service, Azure DevOps, Azure Blob Storage, Azure Key Vault, Docker, Hetzner VPS, Caddy, CI/CD
Auth & Security	Microsoft Entra ID, NextAuth v5, BetterAuth, JWT, OAuth2, Biometric (iOS & Android), MFA
Testing	Vitest, Cypress, Jest, React Native Testing Library, Maestro, Supertest

EXPERIENCE

Full Stack Developer
Jan 2024 – Mar 2026 | Remote / Isle of Man

· Stonehage Fleming · SF Digital

Next.js 15 · React Native · NestJS · TypeScript · PostgreSQL · SQL Server · Prisma · Azure DevOps · BetterAuth · Docker · Cypress · Maestro

— Sole frontend architect and lead full-stack engineer on an internal investment management platform for the Global Best Ideas division — covering client portfolios, valuations, transactions, AUM reporting, and automated document generation.

— Lead engineer on SF Mobile from inception to deployment — a cross-platform iOS & Android fintech app giving wealth management clients real-time access to portfolios, documents, and transactions.

— Owned the full authentication and security system across mobile and backend — MFA (email OTP, phone OTP, biometric Face ID / Touch ID), multi-strategy BetterAuth integration (Azure AD OAuth, Twilio OTP, TOTP 2FA), device recognition, and JWT session management.

— Built 45+ REST API endpoints across both platforms with Clean Architecture, Zod validation, full OpenAPI documentation, and Azure Blob Storage integration for document workflows.

— Delivered automated valuation pipelines, financial dashboards, multi-currency portfolio views, and a 4-language internationalised mobile experience (English, Spanish, French, German).

— Established the full engineering infrastructure across both projects: Azure DevOps CI/CD pipelines (dev/UAT/prod), 150+ test files on the web platform, 52 mobile unit test files, 43 backend test files, and Maestro E2E suites across iOS and Android.

Intermediate Software Developer · AAO Holdings *Jul 2023 – Sep 2023 | Douglas, Isle of Man*
Junior Software Developer · AAO Holdings *Jun 2022 – Jul 2023 | Douglas, Isle of Man*
JavaScript · TypeScript · React · GraphQL · Node.js · Docker · Vitest

– Contributed to a full-stack banking application and internal workflow dashboard using React, Node.js, and GraphQL — working across both client-facing views and server-side business logic as part of a small team.
– Implemented a multi-step due diligence workflow with complex conditional logic, and developed serverless functions handling live user interactions in production.
– Designed and built a cross-departmental ticket system using a state machine pattern — supporting multiple departments with distinct workflow stages, escalation paths, and assignment rules.

PERSONAL PROJECTS

Imperium · AI Knowledge Management Platform *2025 – Present · Deployed, used daily*
Python · Flask · Docker · n8n · Anthropic API · Claude MCP · Hetzner

Production-grade AI knowledge management platform with a multi-service architecture, cost-optimised Haiku → Sonnet → Opus LLM routing pipeline, and Claude MCP integrations. Ingests from Gmail, Drive, and Calendar; validates against governance schemas before writing to a structured Obsidian vault. Python/Flask APIs with 600+ tests at 93% coverage, Docker Compose orchestration, and multi-environment deployment on Hetzner VPS.

Athena · AI Personal Assistant *2025 – Present · Functional, in active use*
Python · Flask · ChromaDB · Svelte · Anthropic API · RAG

AI-powered personal assistant using a RAG architecture with ChromaDB for vector storage and semantic querying. Full-stack product with a Svelte frontend, built end-to-end as a self-directed project.

CERTIFICATIONS

Microsoft Certified: Azure Developer Associate · Microsoft *Issued Mar 2025*
Microsoft Certified: Azure Fundamentals · Microsoft *Issued Sep 2024*

EDUCATION

A-Level Psychology, Business Studies, Media Studies · King's Interhigh Online School *2019 – 2021*