# Hilary Asogwa

**SOFTWARE ENGINEER | .NET & TYPESCRIPT | PRODUCT AND SYSTEMS INTEGRATION**

Newton-le-Willows, UK | +44 7903 517845 | heasogwa@gmail.com | https://hilaryasogwa.com

Open to relocation

**PRACTICAL EXPERIENCE ACROSS SOFTWARE AND OPERATIONS**

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| PUBLIC DEMO<br>**Packing Bench**<br>Watch Renovotec demo | AI PRODUCT<br>**Frank by Idumet**<br>Visit idumet.com | OPEN SOURCE<br>**GitHub**<br>github.com/Dansatch | PORTFOLIO |

C#/.NET software engineer with commercial experience delivering business applications, modernising legacy systems and integrating software with operational hardware. Led a .NET 8 migration and built warehouse and mobile applications at Renovotec, taking work from customer requirements through deployment and production support. Also build React/TypeScript applications and cloud-backed services, with code contributions accepted into Node.js and Fastify.

## TECHNICAL SKILLS

**Core development:** C#, .NET 8/10, ASP.NET Core, EF Core, TypeScript, JavaScript, React, Node.js

**Integration and data:** REST APIs, WebSockets, SQL, SQL Server, MongoDB

**Cloud and delivery:** Azure (with DevOps), Google Cloud, GitHub Actions, CI/CD, AWS

**Mobile and additional skills:** .NET MAUI, Android (Kotlin), Python, Angular

**Engineering practice:** Automated testing and regression coverage are built into delivery, alongside diagnostics, health checks and production troubleshooting.

## PROFESSIONAL EXPERIENCE

**Renovotec Ltd** | Newton-le-Willows, UK | **07/2025 - 10/2026**

**Software Developer | Full-time**

• **Full-stack modernisation:** Modernised the dashboard of LastMile, a commercial proof-of-delivery platform, and led its migration from .NET Framework 4.8 to .NET 8 and EF Core. Rewrote services where obsolete dependencies prevented direct migration.

• **End-to-end ownership:** Gathered customer requirements, estimated delivery timelines and built features across .NET 8 and .NET 10 applications. Deployed to live servers, supported releases and investigated production defects, connecting implementation decisions to operational needs.

• **Systems integration:** Designed and built Packing Bench, connecting barcode scanning, camera evidence, label printing, packing history and reporting in one C#/.NET workflow. Evaluated by colleagues, the Technical Director and potential customers.

Public Renovotec packing-solution demo

• **Application delivery:** Built an internal Android/iOS expenses app in .NET MAUI with API integration, file selection and uploads. Managed signing, testing and submissions to Google Play Console and App Store Connect; used internally, including by the Technical Director.

• **Problem-solving and integration:** Used Python for automation and algorithm work. Replaced legacy PDF generation with QuestPDF and added diagnostics. Built a ProGlove wearable-picking proof of concept and supported customer discussions on migration options.

**Ichie ICT Solutions** | Enugu, Nigeria | **08/2019 - 10/2021**

**Full-Stack Developer | Part-time**

• Developed market-intelligence and cryptocurrency-management applications with dashboards, localisation, themes and role-based access control, translating data and business workflows into usable interfaces.

• Built React interfaces and Node.js, PHP and MySQL backends for payroll, records and customer-facing applications; debugged performance issues and strengthened delivery with Jest and GitHub Actions.

**HILARY ASOGWA | SOFTWARE ENGINEER**

## SELECTED PRODUCTS

**Frank by Idumet** | Founder and Sole Engineer | 03/2025 - Present

Working private Android release | idumet.com

• Built an AI assistant for blind and low-vision users, combining voice, camera context and user-controlled memory. Developed successive prototypes and iterated with testers and accessibility experts.

• Built the Kotlin/Jetpack Compose client and typed Fastify backend with authenticated REST and WebSocket APIs, SQLite, rate limits, retention controls and provider isolation.

• Automated signed Google Play internal releases; deployed a monitored Google Cloud service with rollback and verified backups. Added safety boundaries and failure-path tests for stale context, reconnection and provider failures.

**OpsBridge** | Warehouse operations simulator | Source code | Live demo

• Built a React/TypeScript control room with a server-owned Fastify simulation, shared WebSocket state and SQLite event history. Models orders, devices, synthetic faults, incident acknowledgement and recovery.

• Added health checks, graceful shutdown and a CI verification pipeline with 22 tests covering endurance, failure/recovery, malformed commands and persistence limits. Uses synthetic data, not customer systems.

**SyncUp** | Live application | Portfolio: hilaryasogwa.com

• Built a React/Firebase scheduling app with timezone-aware availability, overlap calculation and real-time updates through shareable rooms without login.

## MERGED OPEN-SOURCE CONTRIBUTIONS

• **Node.js:** Fixed incorrect negative search positions beyond 2 GiB in large buffers, with regression tests. PR #66325

• **Node.js:** Normalised package-map paths to resolve valid dependencies; tested CommonJS, ESM and directory-path edge cases. PR #66054

• **Fastify WebSocket:** Fixed a server crash when clients disconnected during asynchronous upgrade hooks; added a regression test. PR #381

• **Spacebar:** Added message slowmode cooldown information to the typing endpoint while preserving bypass permissions. PR #1687

## EDUCATION

**Middlesex University** | London, UK | 09/2023 - 05/2024
BSc Information Technology and Business Information Systems | **First-Class Honours**

**Aptech Computer Education** | Enugu, Nigeria | 01/2022 - 05/2023
Advanced Diploma in Software Engineering | **Distinction**

**Aptech Computer Education** | Enugu, Nigeria | 05/2018 - 08/2018
Basic Web Development course

## ADDITIONAL EXPERIENCE

**Hospitality and retail | 2021 - 2025**
Tesco - Night shifts | The Mercers' Company - Glass washer | Fuller Functions - Waiter
PEP T Trading - Store assistant | Bovingdons Catering - Chef
Built reliability, customer communication and composure alongside study and software development.

References available on request