Kareem Elsabrouty

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Personal statement

A committed, results-oriented developer with a strong focus on clean, maintainable production code. Constantly learning and pushing beyond my comfort zone, including taking on entirely new concepts and technologies to grow as a developer. I am a flexible developer who selects the most appropriate tools for the task.

Education & Qualifications

- **BSc in Computer Science (1st)** - Staffordshire University (2024 - 2025)
- **Diploma in Computing (Merit)** - Walsall College (2021 - 2024)
- **Bootcamp Certificate** - Just It Software Development Bootcamp (2025)

Technologies & Libraries

My primary language is JavaScript, with professional experience also using PHP, SQL, React library, and Python. I have also built personal projects in other languages and am currently learning Rust.

Key Projects

- **Editor Lite –** Repo (Rust, React, Tauri)
  Built with Rust, React and Tauri as a lightweight, simple editor designed to replace VS Code for day-to-day editing. Created to run on a potato (it uses around 3.3 MB RAM idle). The app prioritises a very clean, focused UI and keyboard-first interactions like opening files, terminal toggles, navigation and most actions to speed up work and improve developer efficiency. End-to-end built and optimised by me with a small, modular codebase focused on performance and ergonomics. Available for download on Windows.

- **Jarvis Jr** - Repo (Python | React | Ollama)
  Local frontend UI communicating with a backend API to interact with a locally hosted LLM. Built with React on the frontend, Ollama for the LLM, and FastAPI for the backend. Features include chat history persistence via local storage, Redux state management, and real-time streamed responses. The project explored running a personal LLM at home and identified hardware limitations.

- **C Backend** - Repo (C | Sqlite3 | JS | HTML/CSS)
  Built a backend HTTP server in C from scratch to learn how servers, memory management, and databases work at a low level. Implemented request handling, JSON responses, SQLite database integration, and frontend connectivity.

- **Cartesian Weight & Coordinating System -** Repo (C++ | Arduino | React Native)
  Developed a smart weighing system using an Arduino and HX711 load cell amplifier. Enabled real-time weight and positional tracking for integration with a React Native smart fridge application via USB serial communication. The system charges users based on the weight and position of products removed in real time. This was a work project where I applied my C/C++ knowledge. *(Repository is a demo version; full implementation is private.)*

- **StoriVault** - Repo (React, Redux, MongoDB, JWT, Express)
  Full-stack web app built collaboratively. Users create and manage serialized stories with chapters, review others' work, and authenticate via JWT and cookie-based sessions. Features dynamic search, reviews, and user profiles. Built as a team project focused on collaborative Git workflows.

More projects on GitHub (Starred Repositories)

Work Experience

- **Coinadrink ltd Junior Software Developer** (08/2025 - Current)
  Led the migration of legacy internal PHP systems to a new React frontend built from the ground up myself. Worked closely with a small team across multiple projects. Implemented authentication, navigation between legacy and new systems, and migrated critical pages. Built core components, abstractions, and authentication systems. Worked on projects such as the Cartesian Weight & Coordinating System and integrated it with a React Native mobile app with minimal guidance, delivering a fully tested proof of concept. I consistently prioritized refactoring and long-term maintainability.

- **RAC Incident Manager** (03/2025 - 05/2025)
  Coordinated roadside incident responses, ensuring fast, safe support.
- **Asda Team Member** (10/2024 - 01/2025)
  Packed 1400+ orders per shift with 99% accuracy.
- **IKEA Team Member** (07/2023 - 10/2024)
  Managed 200+ items daily in a fast-paced environment.
- **Lidl Warehouse Data Entry** (09/2022 - 01/2023)
  Maintained 98%+ accuracy updating stock databases.
- **Vodafone Call Centre Agent** (01/2019 - 09/2020)

Resolved 90% of complaints on first call; improved satisfaction.