

Caoilainn Lynch

Full Stack Developer

Leeds, England
caoilainn.lynch@proton.me
<https://github.com/caoilainnl>

EXPERIENCE

LumenHive Labs (stealth startup), Leeds — Full Stack Developer

Feb 2025 - PRESENT

- build responsive web apps with **React**, **Webpack** and **TypeScript**, managed state with **Redux**
- build **REST APIs** and **GraphQL** endpoints using **Node.js** and **Express.js**
- manage server-side logic, data fetching, and state synchronization with **TypeScript**, **Redis**, and **WebSockets**
- Implement **unit and integration tests** with **Jest**

University of Leeds, Leeds — IT Support Specialist

Feb 2023 - Feb 2025

- Provided IT support to internal staff and departments
- Maintained campus IT equipment and systems
- Troubleshooting computer workstation issues in the library (e.g., software errors, login problems)

Mcloughlins hardware, Derry — Sales Assistant

Aug 2021 - Aug 2022

- Assisted customers with tools and hardware products
- Restocked shelves, managed inventory, and maintained store presentation

SKILLS

React, Webpack, Express, Redis, Vite, Typescript, Javascript, Redux, GraphQL, REST, Websockets, Jest, GO

AWARDS

Faculty of Engineering and Physical Sciences Scholarship

EDUCATION

University of Leeds, Leeds, England — B.Sc. Computer Science

Aug 2023 - June 2025

PROJECTS

CCXT — Go language implementation

- Added functionality to track real-time trading data from **100+ cryptocurrency exchanges**, including OrderBook updates, trades, tickers, balances, and order statuses using go channels and the gorilla websocket library
- Converted TypeScript code into **Go** to share features across both languages

AST Transpiler — Go language transpilation

- implemented GO websocket code transpilation functionality for the CCXT repository, advancing the GO transpilation capabilities to a more complete state

CCXT — Rolling Window Rate Limiter

- Replaced leaky bucket rate limiting with a **rolling window rate limiter**, allowing bursts of requests