George Hum

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Computer Science Graduate w/ **First-Class Honours** @ The University of Sheffield **(Graduate VISA)**

EDUCATION

University of Sheffield   Sep. 2022 – July 2025
Bachelor of Sciences in Computer Science   *Sheffield, UK*

- Achieved First-Class Honours with an **80% final average.**

WORK EXPERIENCE

Goodlord   July 2024 – Aug 2024
Full-stack Software Engineer Intern   *Sheffield, UK*

- Co-owned end-to-end development of new, full-stack agency signup **data collection system** using **React (TypeScript) and Symfony (PHP)**, migrating from legacy system and reducing support team workload.
- Improved customer product understanding and **reduced support volume** by delivering **UI/UX improvements** focused on clearer microcopy and instructional text.
- Conducted company's **first ever A/B test** on user response to alternative product placement using **Mixpanel tracking**, identifying **key reasoning behind poor CTA conversion rates.**
- Applied **Agile** practices: leading regular group **stand-ups and sizing meetings**, engaging in **pair programming**, emphasising **test-driven development**, and identifying core **business and tech specs.**
- Prepared features for all use-cases through robust **unit and end-to-end tests** using **Jest** and **PHPUnit**.

PROJECTS

ORB | *Trading Algorithm*   October 2025 – in progress

- Implementing a profitable futures trading algorithm based on the **opening-range breakout** price range using **Python**.
- Back-testing and optimising trading strategy using **Databento API** for market data, and **pandas and numpy** for processing historical data with strategy logic, **identifying key metrics**, such as win-rate, max drawdown, and profit & loss.
- Integrating with **prop-firm trading programmes** to scale funds and **automatically execute buys and sells and setting take-profit and stop-loss levels** to detach emotions from trade execution.

K-TOOL Engineering | *Website*   July 2025 – Sep. 2025

- Freelanced a complete **corporate website** for a precision manufacturing company using **Next.js (TypeScript)**, **attracting international visitors across 3+ continents.**
- Integrated **long-term, comprehensive SEO strategy** to **rank highly for typical, domain-specific terms** including blog posting, structured data (JSON-LD), Open Graph metadata, sitemaps, robots.txt, and **Google Search Console optimisation**.
- Implemented complete, easy-to-manage **email-based quote request system** using **Resend**, efficiently **converting visitors into real B2B clients**.
- Optimised **UI/UX** through **responsive, component-based design** and **custom animations** using **Framer Motion** and **Tailwind CSS with React.**

rsvpy | *App*   May 2025 – July 2025

- Built a **full-stack app** to solve a real difficulty behind **organising large-scale social events**, and collecting attendance confirmations and payments, using **Next.js (TypeScript)**.
- Created thorough **email notification system** using **Resend**, efficiently alerting attendees of sudden event changes or requesting pending payments.
- Persistence of **event and attendee data** using **Prisma Postgres and AWS S3**, and secure auth system using **NextAuth.**

mobVis | *Source Code*   Sep. 2024 – May. 2025

- Built a **web-based visualisation interface** with generated plots for clinical gait analysis of multiple sclerosis patients, using **Next.js (TypeScript)** and **D3.js** for UI and plots, and **mobgap** with **FastAPI (Python)** for key parameters extraction.
- Conducted **user-centred, iterative design methodology** through close **collaboration** with real clinicians and healthcare researchers, who expressed interest to extend work further during evaluation of final product.
- Awarded **80% final mark**, considered alongside **thorough dissertation of the whole system.**

SKILLS

Languages: TypeScript/JavaScript, Python, Java, Ruby, Kotlin, SQL, PHP, HTML/CSS, RegEx
Libraries/Frameworks: Next.js, React, Tailwind, Symfony, FastAPI , JUnit, PHPUnit, React Testing Library, Jest, Mixpanel, Prisma, cctx, pandas, numpy
Developer Tools: AWS, PostgresSQL, Amazon RDS, Supabase, Postman, Jira, Git