

George Hum

Sheffield, UK | +44 7818 949205 | georgehum.com
hmw.geo@gmail.com | [linkedin.com/in/georgehum](https://www.linkedin.com/in/georgehum) | github.com/g30rg3hum

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

EDUCATION

University of Sheffield Bachelor of Sciences in Computer Science	Sep. 2022 – July 2025 <i>Sheffield, UK</i>
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- Achieved First-Class Honours with an **80% final average**, primarily took **software-engineering** related modules.

WORK EXPERIENCE

Goodlord <i>Full-stack Software Engineer Intern</i>	July 2024 – Aug 2024 <i>Sheffield, UK</i>
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- 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

tairun <i>Job Search AI Agent Workflow</i>	Dec 2025
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- Human-like, daily scraping** of **300+** new job openings on favourite platforms, using **Selenium** and **BeautifulSoup**.
- United **AI agents** using **LangGraph** to implement **reason-based workflow automation** of filtration, research, personal résumé and cover-letter tailoring, and **human-interceptable** final application.
- Minimalistic **React dashboard** backed by **PostgreSQL database** to continuously track and manage entire job search journey.

K-TOOL Engineering <i>Website</i>	July 2025 – Sep. 2025
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- Freelanced a complete **corporate website** for a precision manufacturing company using **Next.js (TypeScript)**, attracting **250+ monthly international visitors**.
- Integrated **successful long-term SEO strategy** to **rank highly** for relevant, domain-specific terms (**89% of visitors come from Google**) including blog, firm directories, 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**.
- Easy-to-manage and on-the-fly **blog-posting** by incorporating **headless content management system Sanity**.

rsvpy <i>App</i>	May 2025 – July 2025
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- Built a **full-stack app** to solve an observed 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 magic-link based auth system using **NextAuth**.
- Optimised for mobile** allowing users to manage events and attendances conveniently through their phones.

mobVis <i>Source Code</i>	Sep. 2024 – May. 2025
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- 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 reusable UI and plots, and **mobgap** with **FastAPI (Python)** for extraction of key mobility metrics.
- Conducted **user-centred, iterative design methodology** involving close **collaboration** with real clinicians and healthcare researchers, who expressed interest to extend work further in final evaluation.
- Awarded **80% final mark**, considered alongside **thorough dissertation of the overall system and process**.

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, RSpec, Mixpanel, Prisma, cctx, pandas, NumPy, LangChain, LangGraph, Selenium, BeautifulSoup
Developer Tools: AWS, MySQL, PostgreSQL, Amazon RDS, Supabase, Postman, Jira, Git, GitHub Actions