George Hum

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Full-stack Developer + First-class Computer Science Graduate from The University of Sheffield

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**, primarily **software-engineering** related modules.

WORK EXPERIENCE

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

- Co-owned end-to-end development of full-stack agency signup **data collection system** using **React (TypeScript) and Symfony (PHP)**, to **migrate from legacy system** and **lower support team workload.**
- **Improved customer product understanding** and **reduced support volume** by delivering **UI/UX improvements** through clearer microcopy and instructions.
- Conducted company's **first ever A/B test** on user response to alternative product placement using **Mixpanel tracking**, pinpointing **cause of poor CTA conversion rates.**
- Applied **Agile** practices: leading regular group **stand-ups and sizing meetings**, performing **pair programming**, emphasising **test-driven development**, and brainstorming core **business and tech specs.**
- Created comprehensive test suites through robust **unit and end-to-end tests** using **Jest** and **PHPUnit**.

PROJECTS

Songdle	*App*	**Dec. 2025 - Feb. 2026**

- A web-based game application of **a song-based version of the renowned Wordle** built using **Next.js (TypeScript) and Supabase, with Prisma ORM and Upstash Redis-backed session rate limiting**.
- **Unique sampling gamemode** where players have to guess the sampling song from a short sample snippet.
- **Polished, modern and mobile-friendly user experience**, using **Shadcn, Tailwind, Framer Motion and Spotify Embeds.**
- **Led** a team of three, **coordinating efforts remotely and efficiently through Git and Slack.**
- Better than existing implementations on the web, and **actually utilises the familiar Wordle guessing and feedback mechanism.**
- **Integrated Vercel Analytics** and currently **enjoyed by 200+ players around the globe!**

tairun	*Source Code*	**Dec 2025**

- **Discrete daily scraping** of new openings on favourite job platforms, using **Selenium** and **BeautifulSoup**.
- Synchronising **AI agents** using **LangGraph/Chain** to **automate daily job-search workflow** from filtration of the most compatible roles to providing quick personalised insights on companies and position requirements.
- Generates **execution summary** and **initial application documents** to facilitate manual application.
- **Increased monthly applications by 60%** and **initial interviews/screening assessments by 75%.**

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

- 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)** involving blog, firm directories, Open Graph metadata, sitemaps, robots.txt, and **Google Search Console optimisation**.
- Implemented 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.**
- **Company-managed blog-posting** by incorporating **headless content management system Sanity.**

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 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 Hof 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, Upstash, Postman, Jira, Git, GitHub Actions