

ALLIE HOWE | SOFTWARE ENGINEER

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PROFESSIONAL SUMMARY

A skilled and motivated Full-stack Software Engineer with three years of professional experience, and four years of educational experience. Proficient in modern front- and back-end technologies, with a focus on writing clean, maintainable and self-describing code, and delivering user-focused solutions. Eager to learn new libraries, skills and approaches.

CORE COMPETENCIES

- ✓ TypeScript, including ES6+ JavaScript
- ✓ SQL & MongoDB, and relevant ORMs
- ✓ Proficient in React for front-end
- ✓ Experienced with REST APIs for back-end
- ✓ Advocate for self-describing code
- ✓ Version control using Git & GitHub

PROFESSIONAL EXPERIENCE

ClicknClear | *London (Remote)*

June 2023 - April 2025 | Full-Stack Software Engineer

February 2022 - June 2023 | Graduate Software Engineer

Primary technologies: React, Fastify, MySQL, Formik, TypeORM, Zod

- Sped up initial site load by 60%, increasing performance by reducing unnecessary React component re-renders, identifying and removing unneeded SQL joins & API calls
- Helped develop an online music playlisting feature used in the 2022 World Artistic Gymnastics Championships and beyond, using IndexedDB to cache audio BLOBs and a React Context to manage state of playback
- Spearheaded UI design and architecture of a mobile-first Progressive Web App designed for mixing music, using Reactful state management combined with useRefs for event- and audio-based logic
- Investigated and debugged an issue that caused users entering Japanese characters to experience an error, and resultantly changed our entire database's encoding set to fix this
- Created a music license parser, using Tesseract to perform basic OCR on tabulated data and GPT-4 to reform this raw data into a strict JSON object

EDUCATION

Computer Science BSc (Hons) | *University of Lincoln* | **First Class**

September 2017 - July 2021

Modules Include:

- Group Project – Tasks six students to function well as a team to complete a project and create documentation of the process.
- Professional Practice – Teaches how to perform effectively and efficiently in a work environment.
- Problem Solving – Challenges students to work in groups, encouraging teamwork, and to think laterally & creatively to solve a variety of problems.

A-Levels in Maths, Physics & Computer Science

Eleven GCSEs including Maths & English

ACHIEVEMENTS

- ✓ Seven MTA certifications, averaging 88%
- ✓ Completed Lincoln Award in 2021
- ✓ Peer Mentor for First Year Computer Science students in 2019
- ✓ UoL Ambassador for KDU University College in Penang, Malaysia in 2018