

Kaleb Hirshfield

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Summary

Undergraduate student pursuing a Bachelor of Science in computer science. I am dedicated to progressing my knowledge and experience in the software engineering and cyber security fields. I have a great interest in motor racing, with my personal hobbies being karting and sim-racing.

Education

University of York

Bachelor of Science in computer science

Expected graduation 2027

Richard Hale School, A Levels

Computer Science (A), Maths (A), Physics (A)

Sep 2022-Jul 2024

Experience

Human Computer Interaction, User Centred Design

Sep 2024-Jan 2025

- Worked in a team of 6 to develop a prototype of an online shopping application for University of York students.
- Conducted semi-structured interviews to obtain data on users' preferences when shopping online as well as demographic and behavioural data.
- Analysed the collected data to create detailed hypothetical scenarios in which users could be frustrated with current online shopping systems, and developed solutions to tackle these issues.
- I created an interactive prototype of the application using industry standard technologies such as Figma and utilised established design heuristics as a foundation.

Inventory Management System

Sep 2023-May 2024

- Developed an inventory management and order tracking user interface system for a local tooling business to replace their existing system.
- Carried out investigations into the organisations existing systems and analysed where it could be made more efficient.
- I completed the application with user authentication, and input validation and verification using regular expressions, to enhance the security of the organisation's data.

- This provided me with experience in creating and normalising SQL databases and developing robust user input forms that only accept valid data before the database is queried.

PA Raspberry Pi Competition

Jan 2023-May 2023

- Reached the national final of the competition in Central London.
- Developed a product to encourage the adoption of solar panels by predicting the energy they would generate within a particular household.
- Gained valuable experience in developing circuitry and software that can interact, as I used LDRs to translate a light input into a digital output.
- The competition, being team based, also extended my communication and time management capabilities as it was essential to keep to a schedule to not miss deadlines.

Open Source Projects

2022-Current

- Created an AI chat application, using a natural language model API to communicate.
- Programmed and maintained my own portfolio website.
- Created an inventory management website targeted towards individual sellers.

Trekinetic, Work Experience

July 2023

- Shadowed engineers to manufacture parts for electric wheelchairs.
- Designed and undertook a stress test for a newly created part to investigate how it behaves under tension.
- Operated CNC machinery to cut parts designed using CAD software.

Extracurricular Activities

- University of York Jewish Society
- University of York Motorsport Society

Skills

- Python, HTML, CSS, Typescript, SQL
- Working in a development team

Awards

- Business Student of the Year, Richard Hale School, 2022