

Kaleb Hirshfield

Welwyn, Hertfordshire | 07543 345346 | kaleb@hirshfield.co.uk | kalebhirshfield.com

Education

University of York 16/09/2024 - 11/06/2027

BSc Computer Science

- 78% Average (Predicted 1st)

Richard Hale School Sep 2022 - Jul 2024

Computer Science, Maths, Physics

- AAA
- Computer Science Society founder

Experience and Open Source Projects

Word Game Oct 2025 - Feb 2026

- Created an online word game that has had up to 4 concurrent players.
- Implemented user authentication, and a Postgres database using row level security, in Supabase.
- Designed a crossplatform frontend with Swing in Java.
- Implemented secure RESTful endpoints using HTTP to enable CRUD operations for authenticated users on authorised records.

Maze Game Sep 2025 - Jan 2026

- Developed a maze game in a team of 7 with Java and the LibGDX library.
- Engaged in the agile development methodology with weekly customer meetings.
- Operated version control with git using best practice standards for commit names and merges.
- Automated unit testing of the application achieving 100% success rate with 80% code coverage.
- Used Continuous Integration with GitHub Actions to generate testing reports and an executable jar file.

Item Tracker June 2024 - Dec 2024

- Created a React web app allowing users to track possessions they wish to resell.
- Integrated REST APIs to connect user authentication with Clerk and database with Supabase.

Calibre Tooling Inventory Management Sep 2023 - May 2024

- Developed an inventory management and order tracking user interface system for a local tooling business.
- Integrated user authentication, input validation, and verification using regular expressions to enhance the security of the organisation's data.
- Designed and implemented relational database with SQL to 3rd normal form.
- Reduced steps in the stock management workflow from 3 to 1.

PA Raspberry Pi Competition Jan 2023 - May 2023

- Reached the national finals by predicting the energy people would save by installing solar panels.
- Used the GPIO pins of the Raspberry Pi to convert light input from an LDR into a digital output.
- Developed an automated emailing API in python using MailTrap to email results to the user.

Skills

- Python, Java, C, Typescript, SQL, React, Git, Postgres, Linux, Unix, NumPy, Pandas