

HENRY GROVES

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Education

A Levels and Further Study, Pontefract New College, Pontefract

2021-2023

- **A Levels:** Mathematics (A*), Further Mathematics (A), Physics (A), Computer Science (A)
- **EPQ:** "To what extent will quantum computing replace high performance computing in computational biology?" (A)

GCSEs, Carleton High School, Pontefract, West Yorkshire

2016-2021

- **GCSEs:** 5 9's, 3 8's
- **BTECs:** D*2, D2

Projects

"Study Room" - A real-time productivity application

Developed a full-stack, real-time application as part of A-Level Computer Science. The application is a customisable productivity workspace with a module system to tailor to individual user's needs. Built with a React.JS and TypeScript front-end, Next.JS / tRPC and TypeScript back-end, with MongoDB as the core database.

"CLAUDE" - Accessible and modular GCM (Global Climate Model)

Provided advice on project structure and version control for the CLAUDE (Climate Analysis using Digital Estimations) GCM, a intuitive and simple model, written in Python and Matplotlib. It aims to make climate modelling more accessible and provide a simple interface to create custom models.

Work Experience

Hillside Fisheries, Ackworth, Pontefract June 2021-September 2023

Work in the kitchen and on front of house serving and preparing fresh fish and chips. Role includes serving customers, taking payments and using kitchen equipment to prepare food. Developed culinary skills along with conversational and transactional skills. Working in a high pressure environment requires good time management and task prioritisation.

Northern Powergrid - Investment Planning, Castleford May 2022

Developed VBA macros in Microsoft Excel to digest financial spend data and create automatic monthly summaries and charts as part of 1 week work experience.

Other Relevant Experience

Carleton High School, Pontefract

Elected as Head Boy in Year 11. Worked with the Senior Leadership Team to promote the school and support students. Developed leadership and team-working skills. Spoke at numerous events such as open evenings and Year 7 transitional activities.

Outwood Primary Academy Bell Lane, Ackworth

Volunteered across multiple year groups assisting with arithmetic and literary support, along with information technology lessons.

Five Towns Christian Fellowship, Pontefract

Volunteer in the audio-visual team, providing multimedia requirements for Sunday services and other events.

Key Skills

- Problem Solving
- Attention to Detail
- Effective Communication
- Customer Service
- Programming
- Software Development

Programming Languages / Frameworks:

- Python 3
- JavaScript / TypeScript
- React.JS
- Next.JS 12/13
- Rust
- Node.JS
- Java

Additional Technologies:

- Git / Github
- LaTeX
- Vim
- MongoDB
- SQL (PostgreSQL)
- HTML/CSS
- tailwindcss
- Access
- Excel