

HENRY GROVES

hengro44@gmail.com | 07392 072855 | github.com/hengrv

Education

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| Further Study, University of Newcastle upon Tyne <ul style="list-style-type: none">M.Comp. (Hons) Computer Science | 2023-2027 |
| A Levels, Pontefract New College, Pontefract <ul style="list-style-type: none">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) | 2021-2023 |
| GCSEs, Carleton High School, Pontefract, West Yorkshire <ul style="list-style-type: none">GCSEs: 5 9's, 3 8'sBTECs: D*2, D2 | 2016-2021 |

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)

Project manage a large-scale open-source climate model CLAuDE (Climate Analysis using Digital Estimations), written in Python. The project's focus is on simplicity and approachability for use as a learning tool. Manage contributions, versioning, packaging and community engagement, whilst also writing simulation code and CI/CD pipelines.

Work Experience

Data Analyst, Northern Powergrid (System Forecasting) May-August 2023

- Combined numerous data sources with SQL and Python scripting to design and implement a statistical model for predicting the demand of almost 4 million customers on low-voltage electrical distribution networks.
- Created a dashboard in Excel from the output, and created visualizations for presentations to the wider team and executives.
- Extracted and processed data for, and worked with other colleagues on regulatory submissions under very tight deadlines whilst also working on the model.

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.

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.

Other 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.

Key Skills

- Problem-Solving
- Attention to Detail
- Procedural Thinking
- Software Development
- Machine Learning and AI
- Data Exploration & Analysis

Programming Languages / Frameworks:

- Python 3
- Rust
- C/C++
- TypeScript
- React.JS
- Next.JS
- Node.JS
- OCaml
- Java

Additional Technologies:

- Git / GitHub
- GNU/Linux
- LaTeX
- MongoDB
- SQL (PostgreSQL)
- HTML/CSS
- tailwindcss
- Access / Excel