

# HENRY GROVES

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## Education

<b>Further Study, University of Newcastle upon Tyne</b> <ul style="list-style-type: none"><li>• <b>M.Comp.</b> (Hons) Computer Science</li></ul>	<b>2023-2027</b>
<b>A Levels, Pontefract New College, Pontefract</b> <ul style="list-style-type: none"><li>• <b>A Levels:</b> Mathematics (<b>A*</b>), Further Mathematics (<b>A</b>), Physics (<b>A</b>), Computer Science (<b>A</b>)</li><li>• <b>EPQ:</b> "To what extent will quantum computing replace high performance computing in computational biology?" (<b>A</b>)</li></ul>	<b>2021-2023</b>
<b>GCSEs, Carleton High School, Pontefract, West Yorkshire</b> <ul style="list-style-type: none"><li>• <b>GCSEs:</b> 5 9's, 3 8's</li><li>• <b>BTECs:</b> D*2, D2</li></ul>	<b>2016-2021</b>

## 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