

# Peter Gillingham

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## Personal Statement

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I am a software developer, with a broad skillset including full stack web development, data science and analysis with Python and MATLAB, and embedded systems engineering with C and C++. I graduated from the University of York, awarded an Upper Second Class Honours for an Integrated Masters in Electronic Engineering with Music Systems Technology. In my career so far I have successfully integrated myself into a fast paced environment, working with many technologies across multiple areas of software engineering, including frontend and backend web development, implementation of AI solutions and development of mathematical models in software.

## Education

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### **Integrated Master's in Electronic Engineering with Music Systems Technology**

*September 2019–June 2023*

University of York

This course has taught me and improved my knowledge in many areas, including electronics, software development, hardware implementation, embedded system design, networking, digital signal processing and data analysis.

### **A Levels - Computer Science, Mathematics and History**

*September 2017–June 2019*

Moulsham High School

### **9 GCSEs including English and Mathematics**

*September 2012–June 2017*

Moulsham High School

## Work Experience

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### **Software Engineer**

*August 2023–February 2024*

Premium Lithium

I have worked across many disciplines in this role, developing full stack web applications, leading multiple projects in operations management and internal statistic tracking, and implementing AI applications for energy arbitrage and solar panel detection. It was a fast paced start up requiring me to manage my time effectively, meet ever changing requirements and deadlines, and work as part of an agile team.

## Production Operator

October 2021–August 2023

DJ Assembly

I have worked in all areas of production and manufacturing of electronic goods, including circuit assembly, box build, and inspection, testing and validation. I also gained experience in managing outgoing and internal stock and logistics.

## Customer Assistant

June 2018–August 2020

Matalan

I worked in all areas of the store, with responsibilities including serving customers at the tills, management and selection of stock on the shop floor, and inventory management in the warehouse.

## Technical skills

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<b>Languages</b>	Python (Pandas, Numpy), JavaScript/TypeScript (Node.js, React, SvelteKit), C, C#, Java, MATLAB and SQL
<b>Technologies</b>	Git, Linux, PostgreSQL, .NET, AWS, Google Cloud Compute, Vercel
<b>Software</b>	Object Oriented Programming, Agile Methodology, Algorithm Design, Database Design and Management
<b>Engineering</b>	Circuit Design and Analysis, Hardware and Software Integration, Embedded System Design and Development

## Achievements

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- Led a project to develop an AI driven energy arbitrage algorithm for use in homes to manage the purchasing and storing of generated energy.
- Delivered multiple customer facing web applications built in SvelteKit with a PostgreSQL database.
- Successfully managed and worked in a team to develop an interactive presentation system, complete with image, audio, video and text display and Python and JavaScript scripting capabilities, implemented in Java.
- Created a model of the human voice and a guitar through the use of physical modelling synthesis, implemented in MATLAB.

## Interests

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I have played guitar for over a decade, drums for four years, and have taken on the role of lead guitarist and audio engineer for my band, resulting in us releasing two albums and playing multiple shows in York. I am also a keen and regular climber, both in climbing gyms and outdoors, and I enjoy cycling in and around York.