

EDUCATION

MSc Engineering Design (Distinction)

Loughborough University

Sep 2020 – Sep 2021

- Collaborated with developers to conceptualise effective products, focusing on user-centric, data-driven solutions.
- Developed an understanding of key financial statements and concepts.
- Led the design of a user-friendly e-commerce platform as part of a product launch strategy.
- Analysed and optimised the performance of thin-film solar cells through MATLAB simulation for my final project.
- Critically appraised alternative mechanisms of enterprise creation and innovation.

BEng Chemical Engineering (2:1)

University of Birmingham

Sep 2017 – June 2020

- Attained an analytical understanding to the core concepts of modern micro- and macroeconomics.
- Evaluated building energy efficiency, renewable energy and energy storage solutions for emissions reduction.
- Utilised MATLAB to create mathematical models, design and optimise systems, and visualise data.
- Applied calculus, matrix theory and Laplace transforms to solve engineering problems

WORK EXPERIENCE

Graduate Design Engineer

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Sep 2021 – Present

- Automated repetitive design calculations using Excel, saving time, and standardising output.
- Developed a technical understanding of low-carbon technologies, sustainable planning policy and power generation.
- Operated in a client-facing team of consultants working efficiently across multiple projects simultaneously.
- Gained proficiency in constructing dynamic models to undertake detailed building performance analyses.
- Delivered high quality technical specifications, drawings, reports, and presentations.

Marketing Intern

Random42

Jun 2019 – Aug 2019

- Leveraged expertise in Excel to quickly sort and analyse large datasets of client information.
- Performed thorough market research and competitive analysis to understand and effectively communicate product value proposition.

PROJECTS

Personal Portfolio Website

harrydaniels.com

- A static webpage hosted on Netlify, achieving a performance score of 99/100 on PageSpeed Insights.
- Tech stack: JavaScript, HTML, CSS, jQuery.

Mock Trading Application

- The app allows users to trade stocks, manage their portfolio, and deposit/withdraw imaginary currency.
- Users can access their transactional history to see their unrealised gains/losses on previous trades.
- Live stock prices are fetched by querying the IEX API.
- Tech stack: Python, Flask, SQLite, JavaScript, CSS3, Bootstrap, HTML5, Jinja.

Weather Application

- A weather application that allows the user to search a location and receive a real-time current forecast.
- Users can quickly search their current location using a feature that queries the Geolocation API.
- Tech stack: JavaScript, HTML, CSS.

KEY SKILLS

- JavaScript (ES6)
- Python
- C
- MATLAB
- SQL
- HTML5
- CSS3
- React
- TypeScript
- Java
- Data Structures & Algorithms
- Figma
- GitHub
- Data Analysis
- Microsoft Office