

Thomas Newton

Python/Django Developer | Python, Django, HTML, CSS, JS

📍 Nottingham, UK 🇬🇧 British Citizen 📞 +(44) 7479002310

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📁 WORK EXPERIENCE AND SELECT PROJECTS

AUCTION HOUSE

JUNE 2021, UK

Built E-commerce web application in Django where users can log in to create new listing and bid on existing items. Developed proficiency with Django ORM and model relationships supported by relational database systems. (*Python, Django, HTML, Bootstrap CSS, SQL, Heroku.*)

SIZEMYSOLAR.CO.UK

DEC 2019 - JAN 2021, UK

Built full-stack web application where users can purchase a solar photovoltaic design for their house or property. Developed proficiency in creating CRUD applications. (*Python, Flask, HTML, Bootstrap CSS, JavaScript, SQLite, AWS S3, Heroku.*)

SOLAR ENERGY PROJECTS ENGINEER | NOTTINGHAM CITY COUNCIL

OCTOBER 2019- JUNE 2021, UK

Responsible for identifying, developing and delivering solar PV installations across the Council's portfolio of 27,000 properties. Provided roof and ground mounted solar PV consultancy to over 15 local authorities and other commercial organisations. Produced detailed feasibility reports including technical drawings, expected system performance, grid applications and business cases for multiple sites in excess of 1MW. Managed project budgets, timelines and risks ensuring projects were delivered on schedule such as the 250kWp Broadmarsh car park installation, which will save the city over 53 tonnes of carbon in the first year of operation.

DATA ANALYST | LIGHTSOURCE BP

2018, UK

Responsible for analysing and modelling PV performance of more than 300MW of UK operating PV systems, including the impact of temperature on PV performance, system reliability, soiling and comparative PV plant performance. Areas of work included floating solar, degradation, soiling losses and bi-facial solar panels. Developed data mining, analytic skills and strengthened quantitative mindset and attention to detail.

🎓 EDUCATION

MSc SUSTAINABLE ENERGY & ENTREPRENEURSHIP | UNIVERSITY OF NOTTINGHAM (DISTINCTION)

2018-2019, UK

Select courses : Creative Problem Solving, Launching New Ventures, Leading Entrepreneurial Growth.

Masters Thesis : Large scale battery storage community energy schemes in new housing developments (Trent Basin Case Study). Identified 40% performance drop of on site 200kWp solar array and exceedance of 2.1MWh battery's safe state of charge (SoC).

BENG RENEWABLE ENERGY ENGINEERING | UNIVERSITY OF EXETER (1ST CLASS HONOURS)

2015-2018, UK

Select courses : Applied Computing for Energy Studies, Renewable Energy Systems, Mathematics for Energy Systems, Data Signals & Systems, Engineering Mechanics, Electronics, and Applied Thermodynamics.

Bachelors Thesis : Feasibility study into a private wire renewable energy development for a large commercial energy user.

</> LANGUAGES AND SOFTWARE

Languages English (Native), Spanish (Native).

Programming **Proficient** : Python, Flask, Django, SQL, HTML, CSS. **Familiar** : JavaScript.

Tools & Libraries Git, Github, Heroku, AWS S3, Bootstrap.

🎓 AWARDS AND CERTIFICATIONS

MSc Student of the Year

University of Nottingham (2019)

Winner of the 2019 Passivhaus Student Competition

Tarmac (2019)

R.U. Hack - Hackathon 2021 (Honorable mention)

CS50 - Introduction to Computer Science

Harvard University (2020)

CS50W - Web Programming in Python and JavaScript

Harvard University (2021)

More Projects : finance, Wiki, mail

Interests : Building things, Habit Stacking, Continuous Learning, Deep Work, Renewable Energy, Guitar, Judo.