

Luke Lee

SOFTWARE DEVELOPER

CONTACT

LukeMJLee.co.uk
linkedin.com/in/lukemjlee
LukeMJLee@outlook.com
+447572662891

ABOUT ME

I am a mechanical engineering graduate with two years experience currently working as a Building Systems Engineer; designing and maintaining monitoring systems. I possess a wide-ranging skillset, and a keen interest in software development. I am competent in Python, JavaScript, HTML, CSS, and am currently looking to transition to a software development role where I will be able to maximize my learning, and further develop my programming skills.

EXPERIENCE

Programming courses

CS50 Intro to Computer Science (HarvardX) 2023

Modules include:

- C, Arrays, Algorithms, Memory, Data Structures, Python, SQL, HTML, CSS, JavaScript, and Flask.

Projects:

- API Stocks Web Application using Python (Flask), SQL, and JavaScript.
- Math Quiz Web Application using Python (Flask), SQLAlchemy, and JavaScript.
- Mock Blog website using JavaScript.

CS50's Web Programming with Python and JavaScript (in progress)

Modules Include:

- Git, Python, Django, SQL, Models and Migrations, JavaScript, User Interfaces, Testing, CI/CD, Scalability and Security.

BMS Engineer at TRI Control Systems, Uxbridge

September 2021 - present

- Configuring digital inputs into a physical SIP located on site using VIQ allowing users to control and monitor smoke-fire dampeners, pumps, and energy/water meters.
- Consulting technical drawings to create graphical interfaces for MSFDs, AHUs, temperature sensors, electrical/energy meters, and other miscellaneous devices operating in real time. These data logs can then be exported as .csv files upon client request.
- On-site installations of UPS, CCTV systems, energy meters, water meters, PLCs, and other control system devices.
- Maintaining up to date documentation of digital inputs, energy meter readings, equipment status', and the locations of equipment for future maintenance.
- Personally liaising with Network Rail and fulfilling requests for altering graphics, fault finding, investigating triggered alarms, equipment malfunctions and implementing fast and effective solutions whilst minimizing disruptions to services.
- In-office IT support including: setting up new computers, configuring networks settings, routers, servers, PLC controllers, electrical wiring, other various building controls devices.

SKILLS

- VS Code / C Python, Flask, Javascript, HTML, CSS.
- IQVision, g63.
- SOLIDWORKS, Fusion 360, Microsoft Excel.
- Adobe Photoshop, Adobe Illustrator, Affinity Designer.
- Fade in, Sony Vegas Pro, and Adobe Premier Pro.
- Electrical wiring and soldering.
- Korean (conversational).
- Spanish (beginner).
- Proficient in technical writing.
- Proof reading, editing and rewriting, cover letters, reports and other various documents.
- Receptive to feedback and always willing to improve.
- Enthusiastic and proficient in self-learning.

EDUCATION

Queen Mary University of London

September 2015 – July 2018

- BEng in Mechanical Engineering, (2:2, 58.5%)

Modules include:

- Robotics.
 - Control Systems.
 - Engineering Materials for Design.
 - Combustion in Automotive Vehicles.
 - Computer Aided Engineering for Solids and Fluids.
- Third year dissertation with a focus on design engineering.**

Elthorne Park High School, Ealing

September 2013 – July 2015 (AS/A-Level)

- Maths (A*).
- Further Maths (A).
- Physics (C).

HOBBIES AND INTERESTS

- Drawing design, creative writing, and reading.
- Weightlifting, boxing, bouldering, running.
- Films and television.
- Guitar, bass guitar.
- Whittling.