

Yoosuf Patel

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PROFILE

As an aspiring software engineer with a background in structural engineering, I have a strong foundation in analytical and problem-solving skills. I am excited to transition my technical expertise and attention to detail to the software industry, where I can utilize my skills to design and develop high-performance software for a variety of systems. I am eager to learn new technologies and approaches to software development, and believe my background in structural engineering has prepared me well for a successful career in software engineering. I am confident that my ability to work well in a team and communicate effectively will make me a valuable asset to any software development project.

PROFESSIONAL EXPERIENCE

Structural Engineer, Arcelle Ltd Jul 2019 – present

- Design of commercial and residential buildings to current standards while following construction safety guidelines. Monitoring on-site construction of on-going projects while working within an allocated budget.
- Being able to collaborate with contractors and project managers.
- Technical knowledge of the building codes as well as being proficient in many different computer modelling software packages.
- Data-driven mindset with excellent mathematical skills and attention to detail. Good communication skills (both written and verbal).
- Designed and produced a python based web-app to allow for project management, client management as well as time keeping.

Sales Assistant, Tesco Mobile Sep 2017 – Jul 2019

- Providing customers with a tailored shopping experience addressing their specific requirements. Controlling costs and delivering budgets. Maintaining stock record accuracy and being prepared for stock control routines.
- Knowledge of troubleshooting and solving regular issues for the latest mobile devices. Sales and service improved my communication skills as well as understanding the benefits of working together in a team to achieve a common goal of providing excellent customer service.
- Our store achieved the feat of exceeding sales for the whole country two years in a row due to excellent customer service.

SKILLS

Programming (C, Python, HTML, CSS, GitHub, Linux) | **Web Frameworks** (Flask, Bootstrap, Anvil)

Machine Learning (PyTorch, Jupyter Notebooks, Anaconda) | **Database** (MySQL, PostgreSQL, MongoDB)

CAD Design (AutoCAD, Revit) | **2D/Graphic Design** (Logos and mock-ups)

Structural Analysis (Tekla Tedds, Tekla Structures, CADS A3D Max) | **Microsoft Office** (Word, Excel, PowerPoint)

Soft Skills (Communication, Teamwork, Leadership, Problem Solving, Critical Thinking)

With an interest in learning (Artificial Intelligence, Quantum Technology, Big Data, Cloud Computing)

PERSONAL PROJECTS

Convolutional Neural Network (Image Classification)

- Produced a convolutional neural network for multiclass image classification.
- Written in Python with the use of libraries such as PyTorch, torchvision, torchmetrics, mlxtend and matplotlib
- Application of machine learning and deep learning algorithms to produce a model that was 90% accurate when applied to the FashionMNIST dataset.

Icarus, *Time tracking, Project Management*

present

- A web app that allows for efficient project management, time tracking, invoice creating, team collaboration.
- Written using the Anvil framework (Python web framework).
- Project is a work in progress with a few modules being completed and many more to go.
- A pre production version of the application has been compiled and deployed using an AWS EC2 server.

Stocks Portfolio

- Web app which allows you to buy and sell stocks, see your current portfolio as well as previous transactions.
- Written in Flask(Python web framework). Bootstrap (HTML and CSS framework) was also used.
- User sign up, sign in, sign out and change password implemented at a later date.
- MySQL used for storing data server side.

Spell Checker

- Implemented a program that spell-checks a file using a hash table.
- Written in C and used Linux to compile and run the program.
- Understanding and application of hash tables to be able to implement an efficient solution.

EDUCATION

Civil Engineering, *Nottingham Trent University*

2017 – 2021

- 2:1 Grade achieved

A-Levels, *St. Mary's College*

2015 – 2017

Pass in A-Level Biology, Chemistry and Maths

INTERESTS

Exercise (Five-a-side football as well as going to the gym regularly. Following a structured plan and pushing to continuously improve myself in the lifts I perform.)

Charity events (Taking part in voluntary work occasionally - coming together with Ummah Welfare Trust to raise funds for water pumps in India. Hosting bake sales and selling customised calendars for the Syrian appeal with Muslim Aid.)

Internal renovations and makeovers (Carrying out structural and aesthetic changes to make an improved living space. Most notable changes made are converting an L-shaped kitchen in to an open plan kitchen with dining space as well as converting an old bathroom to a more updated design. All work was carried out by myself and my father over the span of three months.)

REFERENCES

Dr Mark Davison BSc, PHD, Lecturer, Nottingham Trent University

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