

# Yoosuf Patel

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## PROFILE

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As a software engineer with a background in structural engineering, I have a strong foundation in analytical, numerical 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 various 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.

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## PROFESSIONAL EXPERIENCE

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**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.

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## SKILLS

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

**Machine Learning** (PyTorch, Jupyter Notebooks, Anaconda, Computer Vision, Image Processing)

**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)

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## PERSONAL PROJECTS

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### **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.

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## EDUCATION

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### **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

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## INTERESTS

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**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.)

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## REFERENCES

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

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**Sarfraz Dhariwal MSc, ICE, Director, Arcelle Ltd**

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