Prashan Rai

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Education

City University London - *BSc Computer Science*   **September 2019 –2022**

- *Modules include:* Programming in **Java**, Web Development, Data Structures and Algorithms, Programming in **C++**, **OOAD**, Advanced **Databases**, **AI** & **Machine Learning**, **Networks**, **Data Visualisation**, Programming in **Haskell**
- *Graduated with Class II Upper Division*

Technical Skills & Projects

- **Java, Kotlin, SQL** (*Final Year Project - Timed*)**:**
    - Smart Scheduling app using **NFC technology**. Interface and functions programmed using Kotlin and Java, database managed through **SQL**.
    - **Firebase Auth**, **Android studio**, **Speech-to-text API** and **Mailbox layer API** used.
    - Project managed using **Agile Methodology**, **Use Case testing** and **Github**.
- **Python** (*AI and ML on CIFAR-10 and Fashion-MNIST dataset*)**:**
    - Created multilayer neural networks without using API's or libraries using **sigmoid** and **Relu** layers and backpropagation.
    - Optimised using **SGD** and **Adam** with various stopping criterions.
    - Further developed NN using **Pytorch** library with **Convolution NN** and **Dropouts**.
- **Java** (*DELAPA – Online Item Purchasing Service- group project*)**:**
    - **Full-stack** interface for consumers and staff to manage orders made for a client.
    - Deployed using Java and SQL and took group leader role.
    - **Github** used for version control and followed **Scrum** methodology.
- **HTML, CCS, PHP, JavaScript, MySQL** (*Statistics in Computing Website*)
- **Microsoft Office Suite** (PowerPoint, Word, Excel, Access)

Work Experience

MyTutor Ltd - *School and Personal Tutor*   **October 2021– Present**

- Currently have taught **120+ hours** of coding – in Python, HTML, CSS, JavaScript to students between the ages of 12 – 18.
- Improved the grades of 45+ students by at least 3 grades in GCSE maths and GCSE science.

Alperton Community School - *Curriculum Resource Assistant*   **September 2018 – August 2019**

- Planned and coordinated lessons and exams with teachers for KS3 – KS5.
- Uploaded and ran **statistical analysis** of 1800 students' data using **Microsoft Excel** and **Access**.

Deloitte - *Aspire Programme*   **June 2017**

- Took part in the Aspire programme at Deloitte, shadowing employees in each service provided by the company, particularly looking at case studies.
- Experience and knowledge gained in Auditing, Risk management, Digital & Financial Advisory and Tax.

Achievements and Hobbies

- **Micro Tyco Challenge:** Team leader, responsible for overlooking team's performance, setting up long term goals and acting as the representative. Successfully raised over £3000 over a course of one month for charity.
- **Debate Mate:** Successfully led Debate Team into the top 10 best Debate Team in London and sixteenth best Debate team in the nation for two consecutive years as the team captain.
- **Army Cadets:** Built up discipline and resilience. Learnt soft skills such as public speaking and First Aid (level 2) along with military disciplines.
- **Kendo & Taekwondo:** Attained black belt in Taekwondo and currently practicing Kendo, usually assisting the teacher when teaching newer practitioners.