Vivienne O'Brien

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EDUCATION

MSc Computer Science (FT) Grade prediction: Distinction **September 2019 - September 2020**
University of Birmingham, Edgbaston, Birmingham B15 2TT, United Kingdom
Grade so far (final result will be received after final project hand in in September): 77% (GPA: 4.25)

BA (Joint Hons) Education & Design (Specialisation: Visual Communication) II.I **September 2014 - June 2019**
National College of Art and Design, 100 Thomas St, The Liberties, Dublin, Ireland
From Jan 2018- Dec 2019 I was working full time as a Visual Arts & SPHE Post-Primary teacher teaching 200 students aged 12-18 a week from 9-4pm while balancing my studies and working part-time. Teaching Porfolio: https://vivienneobrienis.wixsite.com/teachingportfolio.
Extra Curricular Clubs & Societies: University College Dublin, Dublin Ireland Division 1 Basketball Team.
Suas Education Development Programme Volunteer – 3 months teaching in Kolkata, India.

TECHNOLOGIES

- Design: Adobe Indesign, Adobe Illustrator, Adobe After Effect, Adobe Photoshop, Adobe Lightroom & basics of Cinema 4D.
- Front-end: React Native, Expo, React, HTML5, CSS3, Bootstrap & JavaScript.
- Backend: Java, Spring/ Sping Boot & Python.
- Database: Postgre SQL, MongoDB, Mongo Express & Postman.
- Data Science: Tensorflow, Keras, Pandas, NumPy & Matplotlib.
- Other: Docker, Git & Github.

WORK EXPERIENCE

Machine Learning Engineer **Final Project** **June - Current 2020**

- I will be investigating the impact of using word embedding representations of information related to COVID-19 on machine learning and deep learning models' ability to predict daily Forex spot price fluctuations.
- This will involve collecting data, understanding how elements of natural language can be fed to a neural network to produce interesting results, pre-possessing and organising the data to suit my classifier, determining ways of optimizing the model and procedures used to solve this problem, build a pre-existing classifier from scratch with my modifications and compare the results obtained with existing work. URL: https://github.com/vivienneobrien/final_project
- Technologies used: Google Colab, Jupyter Notebook, Python, Tensorflow, Pandas, Keras, Numpy & Matplotlib.

Co-Founder & Full Stack Developer **Tattooder** **May - Current 2020**

- This app matches users with tattoo artists.
- Front-end: Using React-Native and Expo Client on my IOS iPhone and Play Store Android to see how the interface would interact on both devices.
- UX/UI: Adobe Suite to create the brand identity and user experience of the product.
- Back end technologies used are Spring/ Spring Boot, Docker and Maden.
- Database used is MongoDB and Mongo Express.
- For unit testing Mockito is used.
- Weekly meetings are had where agile methodologies are introduced however instead of a daily sprint, we carry out a weekly sprint speech/demonstration lasting 5 minutes which gives the team an overall idea of the technologies each developer is working with to implement their task. This application should be deployed by the end of the summer using netlify.

Full Stack Developer **Arcadia** **April - May 2020**

- Arcadia is a gaming platform where users can play multiple games and chat online. This group projects output was to put into practice the implementation of data structures, multithreading, client-server sockets, version control and the usage of a database.
- This project was written using Java and a library called Swing to set up the GUI interface. A database was set up using PostGre SQL. Version control was carried out using Git in the command line. URL: https://github.com/vivienneobrien/Arcadia

Coding Mentor **CoderDojo** **September - November 2018**

- Broke down difficult concepts related to programming to 20 students from ages 6-18 from non-technological backgrounds.
- Mentored and inspired students through various projects to help them maintain a strategy to move forward and continue their programming adventure. Focused languages used: Scratch, HTML and CSS.

Graphic Designer **The Rediscovery Centre** **August 2018**

- Supported teams of 40 teenages from the ages of 12-18 to create and design a sustainable product by giving branding and marketing presentations, adobe concept design tutorials and constructive feedback to help them bring their product to life.

AWARDS

The Union Survives **Best British Book Design & Production Award Finalist 2019 (Student Category)**

Project Output: A book which discusses how young people in Ireland define their gender identity.
URL: https://vivienneobrien.github.io/theunionsuvives.html