Gerome Braddock

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Summary

I am a decisive, hard-working final year university student with bi-lingual (English/Spanish) communication skills and the ability to explain complex topics in easily understandable ways. I'm an AI and machine learning enthusiast who loves to attend local data science and coding meetups. Expecting to begin an MSc in Machine Learning in September 2019.

Education

University of Brighton, East Sussex
Computer Science BSc (Hons) – Predicted First, with honours
September 2015 – June 2019

Third year modules: Specification and Refinement **A+** (95%), Computer Graphics Algorithms **A+** (85%), Programming, concurrency and client server computing **A+** (85%)

Second year modules: Data Structures and Algorithms **A+** (85%), Intelligent Systems **A-** (73%), Computer Systems Architecture **A-** (73%)

First year modules: Programming **A+** (92%), Mathematics **A+** (85%), Introduction to requirements analysis **A+** (80%)

(Transcript available on request, only relevant modules shown)

Colegio Hispano Britanico, Lanzarote, Spain

A-levels: Spanish **A** (with distinction in Speaking), Physics **B**, Maths **C**

GCSEs, 9 A* to C grades including: Spanish **A***, English Language **A**, Maths **B**

Experience

Junior Software Engineer, Placement year + rehire contracted
August 2017 – July 2018, Part-time *September 2018 – Present*
West Control Solutions, Brighton, BN2 4JU

- C# development in Visual Studio. Bug fixing, multi-threaded feature implementation, creating custom software tools for dev testing, C code generation based off XML definitions, all written in a Test-Driven Development methodology.
- Tortoise SVN for version control.
- Experienced in agile methodology Sprint/Scrum.
- Adept in using Jira to keep track of the team's sprints.
- Embedded firmware development using GTest for a Test-Driven Development approach.
- Code reviews done in Atlassian's "Fisheye + Crucible".

- Experienced in Jenkins continuous integration tool, including automatic deployment of installation packages to reduce human error and time taken for testers to receive updates.

Side projects

Emlin, Third year individual project

My final year project of university, Emlin is a machine learning project that is written in python, using Scikit-Learn in order to distinguish between users based on their keyboard input habits in order to detect intruders.

The data was collected by participants using a key-data collection tool written by myself in C# using a TDD methodology. The aim was to have a complete and deployable software and to learn and eventually compare machine learning models, finding which ones work best and are able to detect intruders the fastest (KNN, SVM). Models were compared and evaluated using precision/recall and accuracy.

Produce Recognition*, Intelligent Systems module project

The aim of the software was to create a visual recognition for produce products in a supermarket self-checkout environment, such as Sainsbury's or Tesco and to give me an introduction to image recognition.

With self-created dataset of produce products, I created an image recognition application utilising technologies such as Keras and a Convolutional Neural Network architecture. Different architectures and hyperparameters were exported into Comet.ml and evaluated. The best performing model attains ~90% accuracy on a validation set.

Honesty Shop*, Lanzarote Retreats SL

Written in Java, JavaFX, MySQL and version control in GitHub, the Honesty Shop is a self-checkout and stock control system spread across multiple devices across the holiday complex.

After recognizing the inefficiency of the current system, I offered my paid services to the company to automate the process for the customer and staff. The program keeps count of the client's bills, generates and emails bills to the office. Keeps track of stock, generates shopping list and alerts staff when levels drop too low. Currently has over 30,000 purchases.

Software and System Skills

- Python, using PyCharm and Jupyter.
- Data visualisation using PyPlot and Excel.
- Object oriented design patterns. Reproducing all Gang of Four design patterns in C#*.
- Skills in SQL and querying using Microsoft SQL Server Management System. MySQL and client MySQL Workbench.
- Android development in Java, created 2 apps. Accepted into the Android Developer scholarship program offered by Google.

*Available on GitHub

Interests

- Frequent participant of weekly 5km ParkRun.
- Completed "El Camino de Santiago" pilgrimage.
- Volunteer for beach clean events in Brighton.