Will Morcombe

07859820468
wtmorco@live.co.uk
London, Surrey Quays, SE16 2FA

/in/will-morcombe-bb59411a3/
github.com/willmorcombe
willmorcombe.dev
stockpredictorapp.com

PROFILE

A cheerful and enthusiastic python developer with experience in backend web development and data science, that is charged by a desire to learn and innovate (and some good coffee)! Through my recent job experience I have been able to put my software development knowledge to the test and help create some smart solutions that have been integrated into some large scale projects using Django and Flask. I have been able to create sustainable backend API's; create new projects that greatly increase the companies productivity; and even deploy some ML models into some larger projects. I also still enjoy working on fun weekend projects, my most recent was a full stack project to try and predict stock prices (see projects).

EDUCATION

- **2020-2021 – Advanced Computer Science with AI– MSc**
  Achieved a Distinction (75%).
  University of Leeds.
- **2017-2020 – Computer Science – BSc**
  Achieved a First-Class Honours (81%).
  De Montfort University.
- **2009-2016 – A-Levels and GCSEs**
  Completed three A-Levels, one AS-Level, and ten GCSEs to a high level.
  Woodbridge School, Suffolk.

TECH SKILLS

Programming languages
Python, JavaScript (ES6), SQL, HTML/CSS.

Frameworks and Libraries
Django, Flask, React, Pandas, NumPy, PyTorch, jQuery

Tools and Practices
Git, Bash, Docker, NGINX, Jenkins, Agile Development, OOP, SOLID.

EMPLOYMENT HISTORY

Python Developer – Central Test (London) December 2021 – ongoing

Central Test is a leading expert in talent assessment providing reliable online testing and job matching solutions. Central Test offers a wide range of innovative psychometric assessments targeting all types of positions and responsibility levels.

- Helped design and create a statistics tool, primarily backend (in **Django**) to help re-engineer the way the R&D team run statistics on client data, decreasing the time of analysis by over 50%.
- Dealing with R&D requests to add features on their "Dictionary" project. This involved constantly updating / creating RESTful API's, UI feature and database schemas in order to work with the teams underlying agile methodology.
- Created and deployed an NLP models to detect a candidate's education and experience from a CV. The process included the model design, data collection, annotation and model training.
- Adding a CV analysis feature on to the company testing server. Created and designed the model structure to fit with the companies micro-services framework. Writing backend RESTful API's to access the NER models that were built for the feature (above point). Built in **Flask.**
- Developed SQL queries and views to fetch necessary data from a legacy database as well as helping with the design process of other newly created databases.

SIDE PROJECTS

Stock Prediction App: A full stack application built with Django, React and MySQL. Hosted and deployed on a linux server through docker. The webapp pulls up to date data on stocks by the hour to try and predict the daily change in the closing price of a stock. This was a weekend project to strengthen my skills as a developer. As well as learning more about backend software development, I also learnt a great deal about the deployment process, using a proxy server, nginx, SSL creation and renewal, CRON and much more. This project can be found at https://stockpredictorapp.com

Portfolio: This project was a way to create my own portfolio website in React and to easily show and update people on my GitHub projects through Github's API. It was a very enjoyable to make and it helped enhance my React skills. This can be found at www.willmorcombe.dev

Early classification of sepsis from medical data: Also, built-in python, using actual ICU patient data from two different hospitals, an investigation was carried out to determine whether sepsis onset could be predicted by a patient's vitals and laboratory values. Logistic regression, data imputation and manipulation techniques were used, taking advantage of libraries such as Pandas and PyTorch.

(more can be found at https://github.com/willmorcombe)

INTERESTS

One of my main interests if not self-evident from my personal projects is software and technology. My other main hobby is golf, playing off a handicap of four, I have competed and led my county's junior team victories even on a national scale

References are available upon request. Thanks for taking the time to read this far down my CV!