Will Morcombe

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github.com/willmorcombe

willmorcombe.dev

PROFILE

A cheerful and enthusiastic software developer with experience in data science and web development, 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 artificial intelligence and software development knowledge to the test and help integrate machine learning solutions into large scale projects and I have also been able to help create standalone sustainable web applications using Django. My passion for technology of course delves deeper with long term interests in technology blogs, especially in machine learning, such as the OpenAI blog. Also keeping up with the latest developments in tech is incredibly important (and fun) so I often turn to The Next Web blog to keep myself updated in the advancements of technology.

EDUCATION

- o **2020-2021 – Advanced Computer Science with Artificial Intelligence – MSc**
  Achieved a Distinction (75%).
  University of Leeds.
- o **2017-2020 – Computer Science – BSc**
  Achieved a First-Class Honours (81%).
  De Montfort University.
- o **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, Pandas, NumPy, PyTorch, React, jQuery

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

EMPLOYMENT HISTORY

Data Scientist / 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.

- Worked with project managers to design and create web applications using Django to help with the growing needs of the R&D team. One of the projects included completely re-engineering the way the R&D team run statistics on clients by creating a stand-alone tool to automate the whole process.
- Created and deployed an NLP model to detect a candidate's education and experience from a CV. The process included the model design, the data collection and annotation, model training and testing, and the final integration into existing projects.
- 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.
- Generated scripts for text mining and web crawling to gather large, but important datasets from websites to aid the machine learning models.

SIDE PROJECTS

Offline handwriting recognition: Built in python, this was used as an introduction to artificial intelligence as a neural network was built from scratch only using helper libraries such as NumPy and Matplotlib. The final product was used for translating study notes into online documents with the added benefit of learning the basics of machine learning.

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.

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

(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. I love getting out and travelling the country finding beautiful golf courses to enjoy!

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