

Zhaoyu Zhang

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Education

MEng in Computer Science

Manchester, UK

University of Manchester

Sep. 2018 - June. 2022

- Relevant Modules: Algorithms and Complexity, Data Engineering, Machine Learning and Optimization, AI and Games, Computer Vision, Text Mining, The Internet of Things, Software Security, Databases, Logic and Modelling, Object-oriented Programming, Mobile System, and Cryptography.

A Levels

Wuhan, China

International Division of Hubei Wuchang Experimental High School

Sep. 2015 - June. 2018

- Overall: A*, A* in Further Mathematics, A* in Chemistry, A* in Mechanics, A* in Statistics, A in Physics, A* in Core Mathematics.

Work Experience

iFLYTEK Co., Ltd.

Wuhan, China

Software Engineer Internship - Python

Jul. 2021 - Sep. 2021

- Developed and implemented a speech-to-text recognition model with 93% accuracy from TIMIT speech corpus, significantly aiding the company's investment decisions.
- Earned full-time return offer for my outstanding performance.

Hubei Provincial Foreign Affairs Office

Wuhan, China

Technical Assistant - Python

Jun. 2019 - Sep. 2019

- Streamlined online visa application process, increasing efficiency by 54%
- Introduced auto-translation document feature and real-time document format conversion to their website
- Recognized as Top Intern of the Year with full-time return offer

Selected Projects

Personal Website

London, UK

HTML, CSS, Typescript, AWS - Links to [GitHub](#), [Home](#)

Oct. 2022 - Ongoing

- Implementing Features: (1) Sample showcase of selected projects. (2) Image-to-text conversion page. (3) Professional Developer Blog. (4) Resume. (5) My HTML-version papers and reports. (6) Social media contact links.
- Automated integration using Github Actions and AWS S3.

Question Classifier

Manchester, UK

Python, Machine Learning - Links to [GitHub](#), [Report](#)

Feb. 2022 - Mar. 2022

- A non-answer question classifier, which accepts a question and output one of N-predefined classes, reached at accuracy 0.852 and F1-score 0.697.

Leader Follower

Manchester, UK

Python, RMI - Links to [GitHub](#), [Presentation](#)

Mar. 2021 - May. 2021

- Developed a program which plays repeated 2-person Stackelberg pricing games as the leader under imperfect information, Largest profit reached 19.488 (3 d.p.) per trade against 3 different followers.

Road Tracking in Aerial Images

Manchester, UK

Python, Computer Vision, Machine Learning - Links to [GitHub](#), [Report](#)

Sep. 2020 - Apr. 2021

- Without the use of GPS, by analyzing the satellite images returned by the drone, extracting location information surround it (match similar objects on the map to locate the camera) to establish the scope of the drone's activities. Accuracy is around 100 meters for well-trained models.

SkillSet

Programming Python & Django, Java & Spring, HTML5, CSS3, Javascript & React, Typescript, Kubernetes, LaTeX

Security JPF, JBMC, Burp Suite, Fault Diagnosis, Incident Management

ML Pytorch, AWS SageMaker, Jupyter Notebook, Pandas, TensorFlow(Keras), Scikit-learn.

Data Data Mining, Data Streaming, MySQL, Data Warehousing

Environment Git, AWS, Azure, Web API, Linux/Ubuntu, shell, Windows PowerShell

Other Markdown, Operating System, Pair/Ensemble Programming, TDD