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*

Python Developer Internship   *Jul. 2021 - Sep. 2021*

- Built a speech-to-text recognition model where the sound comes from optical fibres, of accuracy 93% based on TIMIT speech corpus, which was applied by the company on their investment decision.
- Received full-time return offer.

Hubei Provincial Foreign Affairs Office   *Wuhan, China*

Technical Assistant   *Jun. 2019 - Sep. 2019*

- Implemented automated process of online visa application and applicant information retrieving. Increased application efficiency by 54%
- Added auto-translation document feature and real-time document format conversion on the Visa Application website.
- Best intern of the year, and received full-time return offer.

Selected Projects

Personal Website 🔗 **Github** 🔗 **MainPage**   *London, UK*

HTML, CSS, Typescript, AWS   *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 🔗 **Github** 🔗 **Paper**   *Manchester, UK*

Python, Machine Learning   *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 🔗 **Github** 🔗 **Presentation**   *Manchester, UK*

Python, RMI   *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 🔗 **Github** 🔗 **Paper**   *Manchester, UK*

Python, Computer Vision, Machine Learning   *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 & Sass, 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 Architecture, MySQL, Data Warehousing
Cloud	AWS S3, AWS EC2, Azure Active Directory
Other	Git, Markdown, Windows PowerShell, Ubuntu, Operating System, Pair/Ensemble Programming, TDD