Zhaoyu Zhang

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Summary

Highly skilled and ambitious software engineer with a MEng in Computer Science from University of Manchester. Proficient in Python, Java, and HTML/CSS, with experience in software engineering and machine learning. Demonstrated success in developing speech-to-text recognition models and streamlining online visa application processes. Seeking a challenging role to apply my skills and contribute to innovative projects.

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, 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   *Wuhan, China*

Software Engineer Internship - Python   *Jul. 2021 - Sep. 2021*

- Developed and implemented a smart speech-to-text model which support dialects from different regions, with 93% accuracy and 0.3s average response time, significantly aiding the company's developments.
- Earned full-time return offer for my outstanding performance.

Ministry of Foreign Affairs Office of China   *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.

Twitter Topic Analysis   *London, UK*

Python – Links to GitHub, Report   *Mar. 2022 - Apr. 2022*

- Generated topic modelling and sentiment analysis of twitter tags and topics using crawler and twitter api.
- Used BiLSTM and BoW to extract WordCould and Named Entity Recognition from texts.

Question Classifier   *Manchester, UK*

Python, Machine Learning, NLP – Links to GitHub, Report   *Feb. 2022 - Mar. 2022*

- Developed a non-answer question classifier which categorized questions into N-predefined classes
- Tested under random and pre-trained embeddings, reached at accuracy 0.852 and F1-score 0.697.

Road Tracking in Aerial Images   *Manchester, UK*

Python, Computer Vision, Machine Learning – Links to GitHub, Report   *Sep. 2020 - Apr. 2021*

- Analyzed satellite images returned by a drone and extracted location information to establish the scope of the drone's activities

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