

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, Object-oriented Programming with Java, Data Engineering, Software Security, Databases, Logic and Modelling, Machine Learning and Optimization, Computer Vision, Text Mining, The Internet of Things, 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 - Java

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 - Java

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

Shihuo Market

London, UK

Java, Spring Boot, Angular, HTML, CSS, AWS

Feb. 2023 - Ongoing

- Building a second-hand trading website for Chinese students in UK.
- Responsible for backend and frontend.
- Implementing Features: (1) Item trading post. (2) Real-time chat between buyer and seller. (3) Integration with other second-hand websites like ebay. (4) Mobile App version. (5) Other trading information posting, like renting.

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.

Optimizing Minimal Counterexamples

Manchester, UK

Java, Cyber Security - Links to [GitHub](#), [Presentation](#)

Mar. 2022 - May. 2022

- Help users better understand bugs (Identify and locate errors) in java programs by reducing the numerical size of counterexamples generated by java BMC (Bounded Model Checker). Experiments done by my classmates showed a 33% increase in coding efficiency.

Stendhal Local Enhancement

Manchester, UK

Java, REST API, Spring - Links to [GitHub](#)

Nov. 2019 - May. 2020

- Added new cheating commands in the Stendhal game
- Expanded maps: added two new accessible scenes
- Modified attributes of the original items

SkillSet

Programming Java & Spring, Python & Django, 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 Streaming, MySQL, Data Warehousing

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

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