

# 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 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.

### Optimizing Minimal Counterexamples Github Presentation

Manchester, UK

#### Java, Cyber Security

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)

### Stendhal Local Enhancement Github

Manchester, UK

#### Java, REST API, Spring

Nov. 2019 - May. 2020

- Added new cheating commands in the Stendhal game: teleportation, resurrection, invincibility, auto-following, auto-pathfinding
- Expanded maps: added two new accessible scenes
- Modified attributes of the original items: life recovery of food, attack power of weapons, defense power of clothing, etc.

## 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 Architecture, MySQL, Data Warehousing

**Cloud** AWS S3, AWS EC2, Azure Active Directory

**Other** Git, Markdown, Windows PowerShell, Ubuntu, Operating System, Pair/Ensemble Programming, TDD