

# 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, 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

Wuhan, China

#### Software Engineer Internship - Java

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 - 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

### 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

- Developed a solution to help users identify and locate bugs in Java programs.
- Reduced the numerical size of counterexamples generated by Java BMC (Bounded Model Checker) to make them more manageable and easier to understand, with experiments conducted by classmates that showed a 33% increase in coding efficiency.

### Leader Follower

Manchester, UK

#### Java, 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.

### 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