

# Zhaoyu Zhang

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## Work Experience

### iFLYTEK Co., Ltd.

Wuhan, China

#### Python Developer Intern

Jul. 2021 - Sep. 2021

- Built a speech-to-text recognition model using optical fibres, of accuracy 97% based on TIMIT speech corpus, which was applied by the company on their investment decision.

### Hubei Provincial Foreign Affairs Office

Wuhan, China

#### Assistant at Visa Service Center of the Ministry of Europe

Jun. 2019 - Sep. 2019

- Coordinated more than 10 visitors from Babis-Bojay University, Completed bilingual translation of 6 visa and immigration documents (30 pages in total) and reports, and list the optional information of 30+ attractions and projects, and select the best plan which was adopted by leaders

## Education

### MEng in Computer Science

Manchester, UK

#### University of Manchester

Sep. 2018 - June. 2022

- Relevant Modules: AI and Games, Computer Vision, Text Mining, The Internet of Things, Software Security, Data Engineering, Algorithms and Complexity, 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.

## Selected Projects

### Personal Website [Github](#) [MainPage](#)

London, UK

#### Developer

Oct. 2022 - Ongoing

- Using a React framework, deployed on Next.js by Vercel. A summary of my lives and hobbies.

### Optimizing Minimal Counterexamples [Github](#) [Presentation](#)

Manchester, UK

#### Developer

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)

### Question Classifier [Github](#) [Paper](#)

Manchester, UK

#### Developer

Feb. 2022 - Mar. 2022

- A question classifier written in Python, which accepts a question and output one of N predefined classes, Reached at accuracy 0.852 and F1-score 0.697

### Road Tracking in Aerial Images [Paper](#)

Manchester, UK

#### Developer

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

<b>Programming</b>	Python, Java, HTML5, CSS3, Typescript, Javascript, Sass, React, LaTeX
<b>Security</b>	Burp Suite, Amazon Inspector, Fault Diagnosis, Incident Management
<b>ML</b>	Pytorch, Numpy, Matplotlib, Jupyter Notebook, Pandas, TensorFlow(Keras), Scikit-learn.
<b>Image</b>	OpenCV, Convolution, Compression, Filtering, Transformation, Denoising
<b>Language</b>	Chinese (Native), English (Fluent)
<b>Cloud</b>	AWS, Microsoft Azure, Windows Active Directory, LAMP
<b>Other</b>	Git, Markdown, Windows PowerShell, Ubuntu, Operating System, Networks.