# Zhaoyu Zhang

(+44) 7410594580 | zhangzy517@gmail.com | zhaoyuzhangzzy.com | Zhayu517 | zhaoyuzhang

## 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 inverstment 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 ReactJS, deployed on Next.js by Vercel. A summary of my projects, 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

| | |
|---|---|
| **Programming** | TDD, Python & basic Django, Java & basic Spring, HTML5, CSS3 & Sass, Javascript & React, Typescript, LaTeX |
| **Security** | JPF, JBMC, Amazon Inspector, Fault Diagnosis, Incident Management |
| **ML** | Pytorch, AWS SageMaker, Jupyter Notebook, Pandas, TensorFlow(Keras), Scikit-learn. |
| **Data** | Data Mining, Data Architecture, MySQL, Data Warehousing, basic Hadoop |
| **Language** | Chinese (Native), English (Fluent), Japanese (Basic) |
| **Cloud** | AWS S3, AWS EC2, Azure Active Directory, Azure IoT Hub |
| **Other** | Git, Markdown, Windows PowerShell, Ubuntu, Operating System, Pair/Ensemble Programming |
| **Personality** | Problem-solving, Communication, Leadership, Opportunist, Clear and Concise Writing, Time Management |