

# Chenhao Wu

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Language: Fluent in English and Mandarin.

Visa: Indefinite Leave to Remain (settlement)

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EC2M 4PL, UK

## TECHNOLOGIES:

- **Proficient:** Python, Pandas, Powershell, LaTeX, NLP, Speech Recognition, Machine Learning,
- **Working knowledge:** MSSQL, S3, Docker, CircleCI, Elasticsearch, AWS, Kubernetes, MongoDB, Jupyter, JS, Vim, C, Robotics, TTD, Flask.

## WORK EXPERIENCE:

### **Data Engineer, LandTech, London, UK. Oct. 2019 -Now**

**Team:** In Data Quality and DevOps team to maintain SaaS products for property site sourcing.

**Technologies:** Python, Pandas, AWS, CircleCI, Elasticsearch, MongoDB and PostgreSQL, JS..

**Work/Impact:** Integrating and preparing large, varied database for production; data pipeline design with select various technologies for different applications; applying machine learning and NLP for presenting analytics of both production and customer data to give insight of the market trend; automating and improving processes, building alerts and dashboard to identify issues that collaborate with other engineers and/or give direct tech support to customer success and sales teams; drive engineer values, culture and encourage collaboration with innovations through effective feedforward /communications.

### **Lead Python Instructor and Curriculum Developer for BT, CF:G, London. Aug 2018-Mar. 2019**

**Team:** Directly work and report to Code First:Girls' CEO Amali de Alwis.

**Technologies:** Python, Pandas, TTD, Flask, SQLite, Text-processing, JavaScript.

**Work/Impact:** Training 30 women (age 18-46) to become British Telecom's software engineer while designing all teaching materials (including 2 books). All the women got a software engineer job from BT and Amali received the MBE award right after the programme.

### **Data Scientist, Approved Group, Sheffield, UK. Jan. 2018 - Mar. 2019**

**Team:** data scientist team, as a small company we work closely together with smooth communications

**Technologies:** Python, BDD, software/feature development, Machine Learning, Statistical Modeling.

**Work/Impact:** 1. Using Python, pandas and MSSQL to build a customer order prediction and reporting system, which has helped to add more than £1.2 million revenue per year. 2. Using NLP to build a biz-ops tool to analyze which are the monthly star-products and best seller. Also a goods in/out analyzer for revenue, profit, and text insight. Both of the analytic results presented as reports by an automatic report generator by using NLG.

### **AI and CS Tutor for Mawhiba-Oxmedica, King Saud University, SAU. July 2017-Sep. 2019**

**Team:** a group of PhDs and researchers hired by an Oxford University educational organization.

**Technologies:** Python, C, Robotics, Arduino, Machine Learning, Statistical Modeling.

**Work/Impact:** Designed & delivered AI course to top 1% of 14-17 year old students in Saudi Arabia, received the Best Academic Reward while competing with researchers from Oxford and Cambridge. Contributed and won the organisation competition of a Saudi international educational award presented by a Saudi prince.

### **Teaching Assistant 10+ computer science courses, Uni of Sheffield, UK. Sep. 2014-Sep. 2019**

**Subjects include:** Text Processing; Machines and Intelligence; Machine Learning and Adaptive Intelligence; Speech processing, Software Hut etc.

**Technologies:** Python, powershell, NLP, Text-processing, statistical modeling, algorithm design, TDD, SDLC, Jupyter.

**Work/Impact:** Project manager for groups of students for their real life client software projects; hold tutorial sessions for NLP coding questions, update teaching materials, marking assessments; lab demonstrator and assisting students to learn about AI and how to programme basic softwares or robots.

**Research-based Curriculum Designer, The Brilliant Club, UK. *January-June 2018***

**Work/Impact:** Designed 6 GCSE lessons about CS, which will be available for many British schools.

**Cambridge and MIT Sloan Enterprisers for ESRC funded students, Stirling, UK. *April-May 2010***

**Work/Impact:** Group Leader; High Frequency Trading Intern.

## **EDUCATION:**

**2013 – 2020 University of Sheffield – (Part-time) PhD in Computer Science.**

**Dissertation:** Automatic Speech Recognition with Active Learning.

**2012 – 2013 University of Sheffield – Distinction MSc (Hons) in Advanced Computer Science.**

**Dissertation:** Dealing with Transcription Errors: Active Learning.

**2009 – 2010 University of Edinburgh – MSc in Speech and Language Processing.**

**Dissertation:** Sentiment Analysis for Hotel Reviews

**2006 – 2009 University of Central Lancashire – 2:1 BEng (Hons) in Electronic Engineering.**

**Dissertation:** Using LPC method to implement Speech Synthesis on Matlab.

## **OTHER SKILLS:**

### **Communication**

I have developed strong written and verbal communication skills through undertaking my degree courses, delivering presentations and as an active staff member in different University societies and various volunteer jobs, which included being the host for a Pint of Science event in Sheffield and project demonstrator for the Big Bang Young Scientists and Engineers Fair in Birmingham.

### **Team working**

I have worked as a team behavior observer to observe and guide students to learn team working skills. For courses I designed or was involved with, I added sessions which encouraged teamwork. I also love being in a team, as a team player I like to build connections with my research group members and tutor group members in my workplace.

### **Project Management**

For an AI & CS tutor job from a UK company Oxmedica, I needed to design the whole course material and teach the top 1% of students as selected via a national public school exam in Saudi Arabia, with 1.5 weeks preparation time, including the visa application. Within this limited time I completed the course plan and 1st 3 lessons' presentations while in the UK. After arriving in Saudi, adapting to new weather, working environment and equipment, I worked with local teaching assistants and tutors and designed and updated 12 more lessons over 2 weeks. With my love to explore and my positive nature, I completed all tasks, received more than 100 examples of positive feedback and received the best tutor award. I still keep in contact with the tutors and students occasionally send me emails to update me on their progress.

### **Personal Effectiveness**

I have travelled to 30 countries, 298 cities over 4 continents, completed degrees in three different disciplines and studied in a foreign country, which I have now made my home. These experiences show that I am good at adapting my own skills to new environments and circumstances.