Chenhao Wu

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Visa: indefinite leave to remain

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EXPERIENCE:

Data Engineer, LandTech, London, UK. *Oct. 2019 - Present*
Team: Data Quality and DevOps, maintaining SaaS products for property site sourcing
Work/Impact: Integrating and maintaining large production databases; Data pipeline design using multiple technologies for different applications; Providing insights of market trends by applying machine learning and NLP across both production and customer data; Clean, normalise and manipulate/modelling difficult data (e.g. identifying number of bedrooms in planning apps, working with various addresses across 398 councils in the UK); Automating and improving processes, alerting and monitoring to identify issues; Collaborating with other engineers and give direct tech support to customer success and sales teams; Promoting engineering team values and culture, and encouraging collaboration through innovations in effective feedforward and communication; Received the most friendly colleagues (LandBud) Christmas award.
Technologies: Python, Pandas, PostgreSQL, AWS, CircleCI, Typescript, Elasticsearch, MongoDB, Kibana and Prefect.

Lead Python Instructor and Curriculum Developer, CF:G, London, UK. *Aug 2018 - Mar. 2019*
Team: Directly working with Code First:Girls' CEO Amali de Alwis.
Work/Impact: Training 30 women (age 18-46) to become BT software engineers, and designing all teaching materials (including 2 books). All the women got software engineer jobs with BT, and Amali received the MBE award right after the programme.
Technologies: Python, Pandas, TDD, Flask, SQLite, Text-processing, NLP, Machine Learning, SDLC, Agile, shell, Js.

Data Scientist, Approved Group, Sheffield, UK. *Jan. 2018 - Mar. 2019*
Team: data scientist team, working closely within a small company
Work/Impact: 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. Using NLP to build a biz-ops tool to analyze which are the monthly star-products and best sellers. Also a goods in/out analyzer for revenue, profit, tax insights. The analytic results of both were presented as reports by an automatic report generator, using Natural Language Generation.
Technologies: Python, BDD, software/feature development, Machine Learning, Statistical Modeling, NLP, 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.
Work/Impact: Designed & delivered AI course to the top 1% of 14-17 year old students in Saudi Arabia, and received the Best Academic Award while competing with researchers from Oxford and Cambridge. Contributed and won the organisation competition from a Saudi international educational award presented by a Saudi prince.
Technologies: Python, C, Robotics, Computer Vision, Speech Recognition, Machine Learning, Statistical Modeling.

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; Also very active in various conferences, tech meetups and MC of pint of science.
Work/Impact: Product and 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 software and robots.
Technologies: Python, Java, C, powershell, NLP, Text-processing, statistical modeling, algorithm design, TDD, SDLC, Jupyter, Speech Recognition, Text to Speech, Software Design, product management, Agile, Scrum and Kanban.

Research-based Curriculum Designer, The Brilliant Club, UK. *January-June 2018*
Work/Impact: Designed 6 GCSE lessons about CS, which is now available for many British schools.

EDUCATION:

2013 – 2020   University of Sheffield – (Part-time) PhD in Computer Science.
                     Dissertation: Automatic Speech Recognition with Active Learning.
                     Paper: [Analysing acoustic model changes for active learning in ASR](#)

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 while undertaking my degree courses, delivering presentations and being an active staff member in various University societies and volunteer jobs. These include being the host/MC for the Pint of Science events across the UK, residence mentor supporting 100 first year Uni students on a daily basis, being a Women in Engineering project demonstrator for the Big Bang Young Scientists and Engineers Fair in Birmingham, and through attending more the 20 international conferences, meetups and workshops have built a great network in my field.

Team working
I have worked as a team behavior observer, observing and guiding 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. I campaigned for the Welfare officer of my Uni student union and formed and led my own team. I received 1000+ votes with the team effort. I have also recently received a most friendly staff reward from my current company Land Technologies.

Project Management
For an AI & CS tutor job with a UK company Oxmedica, I designed the whole course material to 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 first 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.