CONTACT

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Trihao Van

BIOGRAPHY

A proficient Data Scientist with demonstrable expertise in Python, SQL, and AWS.

Skilled in developing innovative machine learning solutions using Python packages such as TensorFlow, statsmodels, and scikit-learn.

Demonstrated leadership in interdisciplinary teams and effective collaboration on industry projects. Excellent communication skills developed through client-facing roles and tutoring

Comprehensive academic background in Data Science and Engineering.

Recognised for being a self-starter and fast learner, consistently adapting to new challenges and rapidly acquiring new skills to drive success in diverse environments.

COMPETENCES

Computing
• AWS • SQL • Python
• scikit-learn • TensorFlow
• Keras • statsmodels
• Pandas • NumPy • Tableau
• Power BI • GitHub
• MATLAB • LaTeX

Languages
• Native English
• Conversational Cantonese
• Conversational Spanish

EXPERIENCE

Structures Engineer | BAE Systems
November 2020 – August 2022

- Independently developed a neural network to predict structural fatigue using Python and TensorFlow.
- Built an SQL database and migrated aircraft data from legacy Excel solution to improve organisation
- Successfully achieved a twenty-fold reduction in lead times by developing digital toolsets and machine learning models to automate complex tasks.
- Optimised maintenance cycles by analysing aircraft log data and presented findings using Tableau.
- Liaised with a worldwide customer base to manage a global fleet of Typhoon aircraft.
- Led onboarding and comprehensive training for three new team members, fostering seamless integration and sustained professional growth.

Mathematics Tutor | Tutorful
November 2019 – November 2020

- Successfully enhanced the mathematical competencies of five students ranging from Key Stage 2 to A-Level, demonstrating advanced communication and time management skills. As a testament to this achievement, all students attained grades between 9-7 in their GCSE and between A* - B in A-Levels.

Acoustics Consultant | Hawkins & Associates
April 2019 – September 2019

- Automated calculations and data processing using MATLAB, reducing process times by 50%.
- Liaised between contractors and clients at all stages of the construction process to ensure adherence to noise regulations and guarantee comfortable acoustics on completion.

Assistant Manager | Kim Lien Mini Market, Chau Enterprise
June 2018 – April 2019

- Gained an insight into the complexities of running a business and developed my ability to work under pressure in a customer facing role and in a fast-paced environment during busy periods.

EDUCATION

BrainStation | Data Science Diploma
August 2022 – November 2022

- Developed an in-depth knowledge of Data Science topics including statistics, machine learning techniques, and cloud computing.
- Acquired comprehensive knowledge and proficiency in the AWS ecosystem, encompassing services such as EC2, S3, and SageMaker.
- Built Machine Learning models capable of time-series forecasting, clustering, classification, and recommendation using Python packages including statsmodels, scikit-learn and TensorFlow
- Capstone Project - *Power to The People: Analysing and Predicting Household Power Consumption*
  - o Built time series machine learning models in Python to forecast power consumption. Achieved prediction errors as low as 3.5%.

The University of Sheffield | MEng, Aerospace Engineering
October 2014 – June 2018

- Upper 2nd Class Honours
- Recipient of Study Abroad Scholarship
- Final Year Project - *Development of Hydrogen Assisted Combustion Devices*
  - o Simulated the combustion of hydrogen enriched fuel mixtures using computational fluid dynamics to determine the increase in fuel efficiency gained from hydrogen assisted combustion.

PROJECTS

Data Scientist | Industry Hackathon
October 2022 | BrainStation

- Collaborated with web developers and UX designers to conceive and prototype an app within 24 hours aimed at improving energy sustainability.
- Carried out exploratory data analyses on energy and greenhouse gas emissions data to inform project decisions.

Project Manager | Industrial Training Programme
September 2017 – February 2018 | Siemens/The University of Sheffield

- Led an interdisciplinary team of engineering students to design a gas turbine emissions probe to improve flow characteristics and sample representation.