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Jing Zhou

MSc in Machine Intelligence

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Passionate, self-motivated problem solver with demonstrated ability both to lead on projects and integrate within a team of specialists. MSc graduated from the University of Southampton in Machine Intelligence for Nano-Electronic devices. I pride myself in adapting to challenges through learning continuously and analytical thinking, as opposed to limiting myself to my current capabilities. Thrive in innovative and sociable work environments.

SKILLS

Programming	Python, C, MATLAB, SQL, Git, Bash
General	Agile Project Management, Presentation, Writing
Quantitative Research	Machine learning algorithms, Data Modeling & Visualization, Pytorch
Languages	English(fluent), Chinese, Cantonese(native)
Certifications	Udemy MySQL, AWS, Coursera ML (yeah yeah I'm working on it...)

PROJECTS

Group Project: Binarised Neural Network for Hearing Devices, Research student **MAR — JUN 2021**
MINDS Centre for Doctoral Training & Audio Analytic *Southampton, England*

- Investigated the performance of different ML models on sound event detection (SED) tasks.
- Developed a Binary Neural Model(BNN) with teammates from a winning model and dataset of DCASE 2017 using Tensorflow, Keras and Larq libraries in Python.
- Researched and employed a Binary optimizer that reduced 95.5% of the model size from the full precision model with only 5% performance drop at $f1$ score.
- Produced a detailed report for the client and showcase presentation.

WORK EXPERIENCE

Control Systems Engineer **JUN 2019 — JUL 2020**
Shenzhen Probe Science & Technology Co., Ltd. *Shenzhen, China*

- Developed and maintained software within embedded control systems for medical equipment
- Identified the technical challenges and scoped the projects with client requirements.
- System analysis and troubleshooting, constructed the infant mode of ventilator for launching before the pandemic, leading to over \$1.2M revenue.

ACADEMIC

Master of Science in Machine Intelligence for Nano-Electronic Devices, MINDS CDT, University of Southampton April 2022
- Relevant course: Foundation of Machine Learning, Reinforcement and Online Learning, Deep Learning

Master of Science in Advanced Control and Systems Engineering, University of Sheffield Nov 2018
- Relevant courses: Intelligent and Vision Systems, Multisensor and Decision Systems, Signal Processing and Estimation
- Key achievement: Distinction

Bachelor of Science in Communication Engineering, Dalian Maritime University July 2016
Graduate Student Membership, IEEE 2021 — Present

ACTIVITIES

MINDS CDT Hackathon 2021 at Thales UK, Student Developer Spring 2021
Sheffield Uni Students' Union, Graduate Student Councilor 2017 — 2018
Royal Voluntary Service, Student Volunteer Summer 2018