Current Address
25 Childers St, Acton,
Canberra 2601, Australia

Shiqiao Zhou
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Permanent Address
Nankai Dist,
Tianjin 300110, China

Education

Australian National University   Canberra, Australia
Master of Computing   July 2020 – Dec. 2022
- *Overall GPA*: 6.58/7.00; *Average marks*: 81/100 (HD)

Nanjing University of Science and Technology   Nanjing, China
Bachelor of Engineering in Mechanical Engineering   Sept. 2015 - June 2019
- *Overall GPA*: 3.38/4.00; *Last two years GPA*: 3.60/4.00; *Average marks*: 85/100;
- First Prize University Scholarship for 2 times (Rank 1/268, Spring 2018 - Fall 2018);
- Third Prize University Scholarship for 3 times (Rank 25/268, Fall 2016 – Fall 2017);
- Excellent Graduates in Nanjing University of Science and Technology

Publication

- Shiqiao Zhou, Chen Yuan, Zhanpeng Meng, A Semi-Automatic Fruit Picker, Chinese Patent for Invention

Research Experiences

Comparing DL and BERT Methods on Commits' Frustration Detection   July 2022 – Dec. 2022
- Working on 2.1M commits of software projects in three different programming languages (Java, Python, C) to detect expressions of frustration by different DL and BERT models
- Analyzing the insights in the results produced by these models and preparing for writing paper to ICSE

Advanced Deep learning in CV Course Project: One-stage Human-Object Interaction Network with Multi-modal Prior   July 2022 – Nov. 2022
- Working with my teammates to implement a new one-stage HOI detector predicting HOI results by a multi-modal anchor
- Implement different pre-trained model as backbone and modifying model encoder by using group ViT inspired from top-conference papers

The 5th APAC HPC – AI competition   June 2022 – Nov. 2022
- Working on modify Unet, Resnet, ViT and other DL models to improve the accuracy and efficiency of putative transcription factor binding sites --- a segmentation-like task
- Utilizing multiple GPUs provided by the HPC to boost the model training process

COMP4650 Document Analysis course assignments *(HD)*   July 2021 – Nov. 2021
- Completed Assignments of Information Retrieval, Kaggle contest on multi-classification task and NLP downstream tasks like relation extraction, dependency parsing and name generation

Design of trajectory optimization and control system for virtual photographic robot based on 6-DOF serial robot
Dec. 2018 – June 2019
Undergraduate Graduation Project

- Solved Jacobian pseudo-inverse matrix of photographic robot and obtained the inverse kinematics numerical solution of the photographic robot by Newton iteration method
- Carried out a simulation of the shooting path of virtual photographic robot in MATLAB
- *Honors*: Excellent graduation design in Nanjing University of Science and Technology

Steerable Fruit Picking Device   Sept. 2017 – May 2018
- Accomplished the overall mechanical structure design which consisted of operating unit, two telescopic rods, picking unit and collection & buffer unit
- Used Arduino Nano as main controller, designed the hardware circuit part and, wrote the control program
- *Honors*: 1st award in Provincial Mechanical Innovational Design Competition, 1st award in College Mechanical Innovational Design Competition, 2nd award in College Innovation Cup

Teaching Experience

Teaching Assistant of COMP4650 Document Analysis, ANU   July 2022 – Dec. 2022
- Responsible for assisting lecturer to teach tutorials, mark assignments and answer questions

Employment Experiences

AI algorithm intern, Pharmcube Ltd.   Mar. 2022 – July 2022
- Built Rule-based and machine learning models to do IR and NER tasks on clinical data
- Responsible for data pre-process on large dirty clinical data

Software Development Intern, Bosch (China) Investment Ltd.   Dec. 2020 – Jan. 2021
- Mainly responsible for debug, testing and coding in Python script for project data
- Responsible for requirement management

Other Information

Professional Skills: Python, Pytorch, Keras, Java, AutoCAD, SolidWorks, MATLAB
Hobbies: Board Games, Singing, Reading
Language: GRE 321+3.0, CET-6 589