WANG ZHUORAN

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EDUCATION BACKGROUND

Fuzhou University & National University of Ireland, Maynooth   09/2019-06/2023

➢ Major: Automation (Named Robotics & Intelligent Devices at MU) | GPA: 3.79/4

➢ Diploma: Bachelor of Engineering & Bachelor of Science | Maynooth International Engineering College

SCIENTIFIC RESEARCH

Research on the Image Completion of Ink Paintings Based on Deep-learning   05/2022-05/2023

➢ Conducted literature review of image completion/inpainting;

➢ Deepened my understanding of classical models including Transformer, GAN, RNN, and AutoEncoder, and their applications in the field of image completion;

➢ Planned to do ink painting image completion with the application of Transformer and GAN

Algorithms for Big Data, Carnegie Mellon University (GIS)   05/2022-07/2022

Mentor: Prof. David Woodruff, Carnegie Mellon University

➢ Did in-depth study of Amorboaint Analysis, Online algorithms, and Approximation algorithms;

➢ For the detection of plant lesions, practiced multiple neural network models (AlexNet, VGG, ResNet; AlexNet+Transfer Learning, VGG+Transfer Learning, ResNet+Transfer Learning) based on PlantVillage and completed the writing of relevant reports

Summer Scientific Research, Joint Laboratory for Cognitive Systems and Information Processing   07/2021-08/2021

➢ Studied CS231n, Stanford University under the supervision of Associate Professor Wenxi Liu;

➢ Read 5 papers related to AlexNet, ZFNet, GoogLeNet, VGG, and ResNet, and reproduced their codes;

➢ Completed the annotation task of more than 500 image datasets

Introductory Scientific Research Program   06/2021-07/2021

➢ Had a preliminary understanding of scientific research;

➢ Became proficient in LaTex by completing 5 large assignments;

➢ Read and completed a paper summary report, and mastered the writing method and framework of it

INDIVIDUAL PROJECTS

Mini Program Based on Django   10/2021-12/2021

➢ Drew the UML diagram and conducted Requirement Analysis;

➢ Used Django as backend framework, MySQL as database;

➢ Employed the Agile development method, conducted the version control with Git/GitHub and logged everyday progress with the CSDN blog;

➢ Conducted Standup meetings every day and monitored project daily progress using the burnout diagram

Mask Detection System Based on Raspberry Pi   04/2021-06/2021

➢ Implemented a mask detection system by the application of OpenCV, MobileNet, and temperature detection module;

➢ Used Git/Github to conduct version control and project management

REWARDS & PUBLISHED PAPER

➢ **Silver Medal** of Kaggle: Google Brain - Ventilator Pressure Prediction (Top 5%);

➢ **Second Prize (Fujian Province)**, Contemporary Undergraduate Mathematical Contest in Modeling;

➢ **Thring Prize (National-level),** Contemporary Undergraduate Electrician Mathematical Contest in Modeling;

➢ **Third-class Scholarship**, Fuzhou University(twice);

➢ **Third Prize (S Award)**, MCM/ICM (Mathematical Contest In Modeling & Interdisciplinary Contest In Modeling);

➢ **Outstanding Award in School Competition**, "Challenge Cup" College Students' Entrepreneurship Plan Competition;

➢ **Outstanding Student Librarian,** Fuzhou University

SOCIAL PRACTICE

Youth Training Camp, Byte Dance (Online) 07/2022-08/2022

➢ Engaged in big data technology and completed a simple distributed computing system with SQL support;

➢ Participated in several live classes, community discussions, and project practice, and completed MIT 6.824

Y Combinator Startup School (Online) 05/2022-06/2022

➢ Learned the entrepreneur's ideas, how to find a partner and plan an MVP, and how to make plans for the future

Software Development Intern of Shandong University Tianyuan Digital Industry Research Institute, Shandong Tianyuan Information Technology Group 03/2022-06/2022

➢ Participated in the development of GIS systems based on Spring Boot, Vue, and MySQL;

➢ Completed an e-commerce website based on Servlet, JSP, JDBC, MySQL, and Tomcat;

➢ Contributed machine learning pipeline implementation of image segmentation tasks to the company's code base

EXTRACURRICULAR ACTIVITIES

Volunteer Leader of School Library, Fuzhou University 11/2019-07/2022

➢ Responsible for the daily operation;

➢ As a volunteer leader, responsible for volunteer management, message communication, and task allocation

Volunteer English Teacher of the Online Tutoring Activity 04/2020

➢ A one-to-one activity jointly organized by Chiling Public Welfare Library and Fuzhou University;

➢ Mainly responsible for English teaching, taught students to memorize words, phonetic symbols, and grammar

SKILLS & HOBBIES

➢ **English Language:** IELTS (7.0)

➢ **Programming Skills:** Java | Python | C/C++ | MATLAB | Mathematica | Verilog

➢ **Others**: Linux (Ubuntu) | SPSS | Pytorch | TensorFlow | Scikit-learn | Pandas | NumPy | OpenCV | Django | Spring Boot | Markdown | LaTeX | TCP/IP | MySQL

➢ **Hobbies**: Reading | Watching Movies | Doing sports