Ruan Weilin — Curriculum Vitae

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Education

Jinan University   **Sep 2020-Jun 2024**
Bachelor, Network Engineering   *Guangzhou*
English language proficiency: **IELTS 6.0**

GPA: 3.6(5.0) or 86(100) (Progressing, 91 in last semester)

Competition Experience

2020-2022: **3 Bronze Medals**: The ICPC International Collegiate Programming Contest (**ACM-ICPC**) 45-47th
Spring 2022: **1 Silver Medal & 2 Bronze Medals**: 2022 China Collegiate Programming Contest (**ACM-CCPC**)
Spring 2023: **Honorable Mentions**: The Mathematical/Interdisciplinary Contest in Modeling (**MCM/ICM**)
2021-2023: **2 National Second Prize & 2 Provincial First Prize**: Professional Software Engineering LanQiao Cup Final Contest
2021-2023: **1 Champion & 2 Second Prize**: University-level ACM Programming Contest
2022: **1 Gold Medal & 1 Silver Medal**: National University Student Algorithm Design and Programming Challenge(**Top 5%**)

Research & Projects Experience

Ongoing: Graph Neural Network for Recommendation System   **Summer 2023-now**
Sun Yat-Sen University

○ **Research intern** in Sun Yat-sen University **GEAR (Graph lEARning) group**
○ Tasks include Participating in the development and implementation of relevant models for research and so on.

Finished: ARIMA-LSTM-XGBoost Combined Forecasting Model of Wheat Price   **Winter 2020-Spring 2023**
Jinan University

○ **Province-level project finished**: College Students' Innovative Entrepreneurial Training Plan Program
○ Build a multivariate forecast combination model based on the three models of ARIMA, LSTM, and XGBoost from the core.

Ongoing: ViT Model-based Medical Image Assisted Diagnostic System   **Spring 2023-now**
Jinan University

○ **University-level third prize**: "Challenge Cup" National College Student Business Plan Competition
○ Contribution: Project manager (first author)
○ Apply the Vision-Transformer(ViT) model to the medical field to process different types of medical images.

Ongoing: Intelligent complementary diagnosis of degenerative OA following TCM thinking   **Spring 2023-now**
Jinan University

○ School-level project: Leader
○ The pulse diagnosis and tongue color of Chinese medicine can better reflect the characteristics of some bone and joint diseases, which has great analytical value and potential for exploration.

Academic Awards

Fall 2022: Excellent Student Cadre Title of Jinan University.(**TOP 5%**)
Fall 2022: Outstanding students of Jinan University **First-class** scholarship.(**Top 10%**)
Fall 2021: Outstanding students of Jinan University **Second-class** scholarship.(**Top 30%**)

Skills

Programming: 1)Proficient in C/Cpp, Skillful in Python; 2) Strong understanding of algorithms(network flow, etc.) & data structures(such as BST). 3) Codeforces Rating 1762 (**max. 1961**); 4) Experience in application development.

Game making: Have published **4** games online. Have engineering skills and experience working with game development engines. Representative works "**Orphan of the Petal**" on Steam.

Data Science: 1) Rich experience in data cleaning and pre-processing; 2) Crawling can be done using methods such as Scrapy; 3) Use the Pytorch framework for deep learning; 4) Experience in time series forecasting, and sentiment analysis.

Certificates: NCRE-2, NCRE-3, CET-4, CET-6, PAT(TOP)

Internship Experience

Algorithm Learning Engineer   **Fall 2021**
Guangzhou Sesame Coding Education Technology Co., Ltd.

o Mainly responsible for the topic explanation of the Informatics Olympiad (using Office/Dev-C++), data generation (using Cyaron/PyCharm), and maintaining OJ (processing website background data).

Campus Experience

Class President   **2020-2023**
The 20th Network Engineering Class Committee of Jinan University

o Collect and manage class information, organize activities, and ensure that important school announcements are delivered.

Minister of Propaganda Department   **2020-2022**
Jinan University student dormitory building association

o Main tasks are staff scheduling and management, photography for events, tweet production, and poster design.

Club Membership   **2020-2023**
Jinan University Computer Geek Association

o Mainly involved in game production and project experience sharing, has released several game works.