

Ruan Weilin — Curriculum Vitae

☎ (+86) 136 7254 6637 • ✉ rwinno@gmail.com • 🌐 RWLinno

Education

Jinan University

Bachelor, Network Engineering of Computer Science Department

English language proficiency: IELTS 6.5(6.5 8.0 6.0 6.0)

GPA: 3.62(5.0) or 86.2(100)

Sep 2020-Jun 2024

Guangzhou

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**: China Collegiate Programming Contest (**ACM-CCPC**)

Spring 2023: **Honorable Mentions**: The Mathematical/Interdisciplinary Contest in Modeling (**MCM/ICM Top 25%**)

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%**)

2023: **Third Prize**: International English Vocabulary Challenge for College Students (IEVCCS)

Research & Projects Experience

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.

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.

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.

Interpretable Multimodal Sentiment Analysis Models for SMARTHOME

Fall 2023

Hong Kong University of Science and Technology(GZ)

- Participated in the RBCC offline held in HKUST(GZ) and achieved outstanding camper.
- Feature extraction, feature fusion to train a multimodal sentiment analysis model for processing and predicting sensing data provided by smart home devices and providing proactive care.

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) Crawl data using methods such as Scrapy; 3) Use the Pytorch framework for deep learning; 4) Experience in time series forecasting, and sentiment analysis.

Writing ability: 1)Write some blogs about algorithm and has 2000+ followers in CSDN; 2)Maintain over 20 repositories on github.

Certificates: NCRE-2, NCRE-3, CET-4, CET-6, PAT

Internship Experience

Algorithm Learning Engineer

Fall 2021

Guangzhou Sesame Coding Education Technology Co., Ltd.

- 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).

A Graph Learning Study of Long-tailed Distributions

Spring 2023

Sun Yat-Sen University

- **Research intern** in Sun Yat-sen University **GEAR (Graph IEARning) group**
- The tasks include studying the long-tail effect of graph-structured data and attempting to design and implement relevant GNN models to improve learning methods.

Ongoing: A survey about Spatio-temporal data mining

Fall 2023 - Now

Hong Kong University of Science and Technology(GZ)

- **Research intern** in the **CityMind** group led by Prof. Yuxuan Liang at HKUST(GZ).
- The tasks include researching existing techniques in spatio-temporal data mining, time series prediction, and graph learning, and attempting to integrate these techniques organically with multimodal learning.

Campus Experience

Class President

2020-2023

The 20th Network Engineering Class Committee of Jinan University

- 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

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

Club Membership

2020-2023

Jinan University Computer Geek Association

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