



WANG YUCHAO

Bachelor of Data Science

Python, C++, Database, Data Structure & Algorithm

Beijing Normal university

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🐙 GitHub Profile

🌐 Personal Site

EDUCATION

•Beijing Normal University

Bachelor of Data Science

Sep 2021 - Now

Average Score: 85.04/100

•University of South Australia

Exchange Student

Jul 2023 - Now

Average Score: -

EXPERIENCE

•Artificial Intelligence and Future Network Research Institute

Research Assitant

Sep 2022- Jun 2023

Zhuhai, China

- Conducted research on vulnerability-based scheduling analysis utilizing Docker containers, involving data cleaning, code development, and paper review
- Currently have one journal paper under revision and one conference paper in preparation
- Contributed to Team project on analyzing docker container vulnerabilities and their impact on scheduling

•Literature and Science College

Teaching Assitant

Jun 2023 - Jul 2023

Zhuhai, China

- Designed curriculum and prepared assignments and exams for undergraduate algorithms course
- Graded assignments and exams and provided feedback to students

PERSONAL PROJECTS

•TalkUp - English Learning Platform

Website Development, Training Large Language Models

Mar 2023 - Sep 2023

- Tools & technologies used: JavaScript, Python, ChatGpt
- Developed an online conversational English practice platform utilizing natural language processing and machine learning to provide personalized and high-quality speaking practice for students in underdeveloped regions.
- Created databases of textbook and real conversational English, applied the ChatGPT for generating dialogues
- Student model personalization via data mining and machine learning model

•iGEM Team Website

Web Development

Dec 2022 - Feb 2023

- Tools & technologies used: HTML, CSS, JS
- Static page for display purpose in iGEM competitions, Performed requirements analysis, Developed semantic, accessible HTML pages applying web standards, Deployment on Vercel, GitHub Pages

•Weather Forecast Model

CNN model

May 2023 - Jun 2023

- Tools & technologies used: Python, Prophet library, CNN model
- Conducted a study on factors impacting surface temperature change, used machine learning(Prophet-CNN) models to predict temperature trends over 30 years.
- Identified greenhouse gas emissions as significant factors and projected a 0.4°C rise in global surface temperature.

TECHNICAL SKILLS AND INTERESTS

Languages: C++(advanced), JavaScript(advanced), Python(intermediate), HTML5, CSS, Java, SQL, R, L^AT_EX

Tools: Git, Shell, Visual Studio Code, JetBrains IDEA, JetBrains Pycharm

Frameworks: Vue.js, Node.js, Flask

Soft Skills: IELTS 7.0, Experience in Drawing elegant Research Graphics, 2 years Experience in Competitive Programming, Fast typing speed, Advanced on Microsoft Office software

Coursework: Python Programming, Data Structure, C/C++ Programming, Competitive Programming, Database Systems, Object-Oriented-Programming, Data Mining, Algorithm Design and Analysis, Discrete math, Computing methods

Areas of Interest: Edge Computing, Edge Scheduling, Image Security

ACHIEVEMENTS

Scholarship

- Beijing Normal University Second Prize Scholarship** *Sep 2022*
- Beijing Normal University First-class bursary** *May 2023*

Awards

- Chinese College Student Programming Contest, Bronze Award in Guangdong Province** *May 2023*
- 2023 National Computer Design Competition, Second Prize(National)** *Aug 2023*
- Blue Bridge Cup Programming Competition, Second Prize in Guangdong Province** *Apr 2022*
- The 3rd National Undergraduate Algorithm Design Challenge, Bronze Award(National)** *Jul 2022*
- 2022 National Mathematical Contest in Modeling, Third Prize in Guangdong Province** *Sep 2022*