Yifei Yang

https://yfyang.me/ | Github:NorthSecond | yangyf83@aliyun.com

Education

School of Computer Science, Sun Yat-sen University — Master's Student | Computer Technology
Admission by promotion in September 2023. — Sep. 2024 - Jun. 2027(Estimated)

School of Software Engineering, Sun Yat-sen University — B.Eng Student | Software Engineering
GPA: 3.9/4.0, Rank: 11/70 — Sep. 2021 - Jun. 2024

School of Geospatial Engineering and Science, Sun Yat-sen University — Student | Remote Sensing
Transferred to the School of Software Engineering in 2021. — Sep. 2020 - Jul. 2021

Work Experience

Network and Information Center, Sun Yat-sen University — Student Assistant
Zhuhai Campus — Nov. 2021 -- Present

- **Job Responsibilities**: Assisting in handling various technical issues related to the network in student residential areas.

Projects

Task Scheduler for NuttX RTOS with POSIX Compliance and SMP Support — Main Contributor
CSCC 2023 — Mar. 2023 -- Aug. 2023

- **Project Overview**: Developed a symmetric multiprocessing (SMP) task scheduler with POSIX compliance on top of the open-source real-time operating system NuttX RTOS. The scheduler maintains local sequences for each core and has been successfully tested on multiple simulated platforms and real hardware boards.
- **Roles and Responsibilities**: Algorithm design and implementation, real hardware platform validation, project report writing, and presentation.
- **Project Achievements**: Received the National Second Prize in the 2023 National College Student System Capability Competition - Operating System Design Challenge, as well as the Outstanding Teacher Award for the team's mentor.

Deep Learning-Based Multimodal Long Text Misinformation Detection — Project Leader, Main Contributor
Sun Yat-sen University, School of Software Engineering - Innovation Project — November 2021 -- November 2022

- **Project Overview**: Created a Chinese multimodal long text misinformation dataset and proposed a deep learning model with attention mechanisms for detecting the authenticity of Chinese multimodal long content, combining text and images.
- **Roles and Responsibilities**: Overseeing group planning, literature review, algorithm design, and part of the experiments, as well as summarizing conclusions and report writing.
- **Project Achievements**: Passed the project acceptance with an excellent rating (1/12) in the college-level innovation project.

Competitions and Awards

- **Technical Skills Competitions**: Second Prize in the 2023 CCSC National College Student System Capability Competition - Operating System Design Challenge, Outstanding Award in the Southern Regional Competition, Participation in the 2022 Alibaba Cloud Oceanbase Database Challenge.
- **Mathematical Modeling Competitions**: Finalist in the 2023 Mathematical Contest in Modeling (MCM), Third Prize in the 2022 National College Student Mathematical Modeling Competition.
- **Programming Competitions**: Third Prize in the 2021 and 2022 Sun Yat-sen University Programming Contests, Third Prize in the 2022 Sun Yat-sen University Programming Newbie Contest.
- **Scholarships**: Second-class Scholarship for the 2020-2021 academic year, Third-class Scholarship for the 2021-2022 academic year at Sun Yat-sen University.
- **Other Recognitions**: Outstanding Branch Secretary of Sun Yat-sen University in 2021, Advanced Individual in Work-Study Programs at Sun Yat-sen University in 2023.

Technical Skills

- **Programming Languages**: Proficient in C/C++, scored 300 points in the 30th CCF CSP Computer Software Ability Certification (C/C++ category, top 2.26% nationally). Experience with Python, Rust, Java, SQL, Matlab, TypeScript, Golang, and more.
- **Development Tools**: Familiar with the use and maintenance of common Linux distributions, proficient in PyTorch, Git, Docker, LaTeX, MySQL/MariaDB, and knowledgeable about Typst, TVM, LLVM, Express, Actix-web, and other technologies and projects.
- **Areas of Knowledge**: Expertise in operating systems, distributed systems, intelligent software engineering, backend development, open-source community participation, and project maintenance.
- **Language Proficiency**: CET-6 score: 536.