

Shuyan Liu

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► EDUCATION

Sep,2022 - present **Xi'an Jiaotong University** **XI'AN, CHINA**

- MSc in Software Engineering at Faculty of Electronic and Information Engineering
- Graduate cumulative GPA: 3.68/4.0 Professional ranking: 3/308

Sep,2018 - Jun,2022 **Hefei University of Technology** **HEFEI, CHINA**

- MSc in Electronic Information Engineering at School of Computer and Information
- Graduate cumulative GPA: 3.47/4.0 Professional ranking: 14/151

Relevant coursework: Distributed systems(96/100) Principles of artificial intelligence(93/100)

Honors & Awards:

- Nov 2023: Xi'an Jiaotong University Principal Academic Scholarship & Shenzhen Stock Exchange Social Scholarship.
- Oct 2023: "Outstanding Postgraduate" title from Xi'an Jiaotong University.
- Sep 2022: Xi'an Jiaotong University Freshman Scholarship.
- Undergrad: School-level Miyoshi Students & School Outstanding Students Scholarships (3x).

► INTERSHIPS

Jan 2022 - May 2022 **iFLYTEK CO.LTD.** **Junior Algorithm Engineer Intern**

- **Supervisor:** Haijun Zhang, Senior Algorithm Engineer
- Conducted OCR, Transformer, and Conformer model training and optimization for neural networks, enhancing algorithmic efficiency.
- Utilized TensorFlow and PyTorch for algorithmic operations, demonstrating proficiency in these frameworks.
- Applied TensorFlow and PyTorch to GPU acceleration cards like BIV100 from Horizon Robotics and the SeaLight Deep Calculation Unit (DCU), contributing to improved training efficiency and enhanced performance.

► RESEARCH EXPERIENCE

Sep,2022-present **XNetLaboratory,Xi'an Jiaotong University** **Lab member**

Supervisor: Associate Professor Chenxu Wang

Time Series Forecasting based on Graph Neural Network

- Explored spatiotemporal characteristics of time series data for accurate forecasting.
- Applied Graph Neural Network structures and neural ordinary differential equations to enhance time series forecasting. Awaiting review for "GNODE: Graph Neural Ordinary Differential Equations for Multivariate Time Series Forecasting" paper.
- Submitted "Low-quality Trajectory Representation Learning for Similarity Computation" paper for review.
- Successfully analyzed and applied factory big data for precise insights.

Engineering Training Competition "Intelligence+" (Team Leader)

- Autonomous intelligent handling robot designed for material recognition, handling, and precise placement, achieved National Second Prize and Provincial First Prize.
- Executed PCB fabrication with expertise in schematic design, layout, and IoT communication integration.

Sep,2019-Jun,2022 Electronic Information Laboratory,Hefei University of Technology Lab member

Supervisor: Associate Professor Xingming Yang

Computer Challenge Competition (Team Leader)

- Developed an intelligent in-car terminal system based on mobile interconnection.
- Implemented an embedded system, cloud server, and mobile app using MQTT protocol.Integrated car sensors and actuators for environment perception, data visualization, and intelligent alarm functions.
- Led the team to achieve the national championship.

National College Student Electronic Design Contest (Team Leader)

- Designed and produced an Internet-based camera measurement system.
- Achieved high-precision measurement of pendulum motion parameters through visual recognition and hardware communication.
- Awarded National Second Prize and Provincial First Prize.

► **PROJECTS**

Jun. 2020 - Jun. 2022 National Undergraduate Innovation Project Team Leader

Project: "E-Search Learning Sharing Community Based on Big Data Technology"

- Led the design of a mini-program focusing on modules such as photo-based question search, material sharing, and interactive learning, utilizing big data algorithms to construct a shared learning platform for college students.
- Coordinated team members in background research, product development, and operational tasks, navigating the complete software lifecycle from requirements analysis and system design to system implementation.
- Secured three software copyrights and received multiple awards, including the Provincial Silver Award in the "Internet+" competition, Provincial First Prize in the Three Innovations competition, and First Prize in the Qingniao Cup.

► **ACTIVITIES**

Nov,2023 4th United Nations Job Fair Volunteer

- Coordinated reception for over twenty distinguished guests from international organizations, including UNESCO, ITU, and IAEA, showcasing strong organizational and communication skills.
- Contributed to successful event hosting, fostering positive relationships with diverse stakeholders and maintaining a welcoming environment for international guests.

Oct,2018 - Jun,2022 China Youth Volunteer Association Volunteer

- Participated in various activities, including environmental protection, COVID-19 prevention, and campus new student orientation.
- Received the honor of "Outstanding Volunteer" for contributions to community service.

Oct,2018 - Jun,2022 Class Psychological Committee Member

- Received the honor of "Outstanding Psychological Committee Member"and consecutively awarded the title of "Outstanding Student Leader" at the university level for two years.
- Demonstrated leadership and dedication in promoting a positive environment within the class.

► **SKILLS**

Languages: Chinese: Native English: Proficient (CET-6)

Computer Skills: Java, Python (including PyTorch tools like Pandas, NumPy, Matplotlib), C++, and C Programming, MATLAB, Quarts (hardware design) , Altium Designer (PCB design)

Additional Skills: Photography, Photoshop, Premiere