

Yujie Sun

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EDUCATION

Northeastern University

MS in Applying Machine Intelligence

Boston, US

09/2022 - Current

- **GPA:** 3.8/4.0
- **Expected graduation:** 2024/04
- **Anticipated Coursework:** Data Mining Applications, Fundamentals of Artificial Intelligence, Applications of Artificial Intelligence, Data Management and Big Data

Civil Aviation University of China

BS in Information Security

Tianjin, China

09/2017 - 06/2021

- **GPA:** 3.1/4.0
- **Relevant Coursework:** Operating System, Computer Network, Data Management and Big Data, Algorithms and Data Structures, Probability and Statistics, Linear Algebra

RESEARCH EXPERIENCE

Design and Implementation of Intelligent Warehouse Logistics Robot

Research Assistant, Advisor: Qinyan Shi, Civil Aviation University of China

Tianjin, China

02/2018 - 03/2019

- Used a C51 micro controller to complete basic robot commands.
- Utilized shortest path planning for cargo feature recognition and computer vision scanning of target QR codes.
- Optimized the success rate of QR code identification base on OPENCV.
- Developed a real-time monitoring interface based on streaming transmission technology in web.

Design and Implementation of a Management Platform for Colleges

Research Assistant, Advisor: Hongjun Heng, Civil Aviation University of China

Tianjin, China

04/2019 - 03/2020

- Developed frontend and backend of College Management website and took the responsibility of designing, coding, building, analyzing, and maintaining the website.
- Learned the website development process of the spring boot framework.
- Used Decision tree model to help students planning courses based on their grades.
- Led the team to complete the development of the website.
- Completed the main part of the website code and deployed the website on the cloud server.

Research on Vulnerability Analysis of Daxing International Airport System

Research Assistant, Advisor: Hongyu Yang, Civil Aviation University of China

Tianjin, China

09/2019 - 12/2019

- Learned a set of criteria for evaluating vulnerability levels.
- Executed vulnerability management including identifying, classifying, remediating and mitigating bugs by calculating their important level.
- Learned the risk assessment by testing the website in Python.

Emotional analysis of online shopping after-sales feedback based on Python

Research Assistant, Advisor: Sihai Zhang, University of Science and Technology of China

Hefei, China

06/2020 - 08/2020

- Learned to use Python for data analysis and processing of big data.
- Analyzed and classified user feedback using the based NLP model.

- Used Python to automatically generate product feedback labels and classify products based on user feedback analysis.

De Novo Macromolecular Complex Structure Prediction from CryoEm Maps Boston, US
Research Assistant, Advisor: Si Dong, University of Washington 06/2023 - Current

- Learned the application of CNN model in structural biology to predict protein structure.
- Done the background research and literature review.
- Optimized the performance of the diffusion model For CryoEm map in super Resolution.

WORK EXPERIENCE

STATE GRID Corporation of China Xiamen, China
Web Development Engineer 06/2018 - 08/2018

- Planned website development, converting mockups into usable web presence with HTML, JavaScript, AJAX, JSON and VUE coding.
- Created the demonstration of webpages and optimized the search function, identified and removed errors and maintained the functionality of the website.

Zhongxin Network Information Co., Lt Hefei, China
Web Crawler Engineer 06/2019 - 08/2019

- Analyzed Advanced Persistent Threat attacks and wrote cyber threat intelligence reports.
- Extracted data from China National Vulnerability Database of Information Security in Python using Scrapy.
- Performed mathematical operations on arrays using python and summarized the features of computer viruses and malware.

PROFESSIONAL PUBLICATIONS

Pengwei Sun, Yan Shi, Jiapeng Shi, **Yujie Sun**. (2019). Intelligent logistics robot. Science and Technology.CN, 65-1078/Z(2), 36-38.

Yujie Sun, Weijie Li, Luyin Cao, Yuhan Qin, Lewei Ai. (2020). Design and Implementation of a Management Analysis Platform for Secondary Colleges - Academic Affairs Management Module. Science and Information Technology, 033, 146-146.

Yujie Sun, Weijie Li, Luyin Cao. (2019). Implementation of a separated college management analysis system for Vue and Springboot Digital users, 025(052), 212.

Yujie Sun, Xia Yuyu, Jiang Laiwei, Zou Jiaxu, Xu Junyi, Sun Jimeng (2022) Design and Implementation of a Classroom Management System Based on Mobile Platform Technological Innovation and Application, 12 (30), 4

SKILLS AND INTERESTS

Programming Language: Python, Java, R, C++, HTML/CSS, PHP

Language: Mandarin, English

Interests: Badminton, Reading, Music