SUMMARY

- Pursuing an undergraduate degree in Intelligence and Robotics, I have honed my skills in statistical learning algorithms and neural networks, leveraging Pytorch extensively. My proficiency in data mining, data analysis, and mathematical modelling are underscored by my rich experience.
- Adept at Linux, my skill set encompasses diverse programming languages: Python for myriad applications like data analysis, machine learning, and web development; C/C++ for OpenGL and embedded development; Rust for basic I/O operations; and MATLAB for mechanical and control simulations.
- Well-versed in Office, LaTeX, HTML, CSS, JS, and Git.

EDUCATION

East China University of Science and Technology Sept, 2020 – Jul, 2024

BEng Major in Intelligence and Robotics (Robotics) Shanghai, China

- Huawei "Intelligence Base" Outstanding Student Scholarship in Nov, 2021 (Level B, selection rate 1%).

Relevant Courses:

Mathematical Foundations for Artificial Intelligence (3.7/4.0, A-) Computer Graphics (3.7/4.0, A-)
Pattern Learning and Machine Learning (3.3/4.0, B+) Learning Tools and Platforms (3.7/4.0, A-)
Principles and Design of Embedded Systems (3.0/4.0, B) Robotics Principles and Design (2.3/4.0, C+)

East China University of Science and Technology Oct, 2021 – Feb, 2023

Mini-major Diploma Major in Computer Science and Technology Shanghai, China

Relevant Courses: Data Structures and Algorithms, Principles of Database Systems, Operating Systems, Software Engineering, Computer Networking.

INTERNSHIP

Bank of Communication Financial Technology Co,Ltd. Dec, 2022 – Feb, 2023

Back-end Developer Shanghai, China

- Created an updated HRM using a low-code platform and its APIs, designed its relational database and automated the process from pre-employment to employee management.
- Developed OCR APIs for HRM (Human Resource Management) using the OpenAPI standard, improving the efficiency and accuracy of data capture.
- Participated in the DevOps process for the company's supply chain and debt management platform, contributing to integration testing, compilation, deployment and test case management.

ISCAS (Institute of Software Chinese Academy of Sciences) Apr, 2022 – Sept, 2022

Development and Testing Remote

- Tested and packaged software such as Autoconf-2.13 and Pijul on the openEuler platform, ensuring compatibility and functionality within the openEuler operating system.
- Developed "rsensleak" partially, a document-sensitive information recognition tool based on Rust, which analyses documents and identifies sensitive information such as passwords, key tokens, and private information.

ACADEMIC PROJECTS

Signal base station siting problem (MathorCup Mathematical Modeling Program) Apr, 2022

Programmer Shanghai, China

- Implemented a particle swarm optimization model with additional coordinates as guide terms for central base station planning using K-Means clustering and incorporated coordinates based on greedy thinking for branch base station planning. I enhanced signal base station optimization by partitioning map outliers.
- Refined base station coverage boundary into three principal directions, calculating coverage using an approximation of a circle of equal area. The line connecting the base station centre and the circle determined the main direction of signal emission.
- The improved PSO demonstrated faster convergence and higher accuracy, with final model parameters extracted with an error of less than 2%, outperforming the traditional BOKM algorithm.

Speech-Recognition-Based Mechanical System for Lift Control Apr, 2021 – Jun, 2021

Software Developer and Tester Shanghai, China

- Developed a Raspberry Pi-based lift control mechanism, utilizing stepper motors, magnetic switches, and Huawei's voice recognition API for contactless operations during pandemics.
- This Python-controlled innovation secured the second prize at the 10th Shanghai City University Students Mechanical Engineering Innovation Contest.

REWARD AND CERTIFICATIONS

- IELTS (6.5), CET-6 (583), proficient in English communication for study and work;
- The Shanghai College Information Technology Level Examination in Big Data and Cloud Computing, Level 4 (Mar, 2023, Highest Level);
- The Shanghai College Information Technology Level Examination in C Programming and Application, Level 3 (Jan, 2022, Highest Level);
- Successful Participant in COMAP Interdisciplinary Contest in Modelling (ICM) (Feb, 2023);
- Successful Participant in Asia and Pacific Mathematical Contest in Modeling (Feb, 2022);
- Third Prize of the 12th National E-Commerce "Innovation, Creativity and Entrepreneurship" Challenge Contest (Jun, 2022);
- The Second Prize in 10th University Students Mechanical Engineering Innovation Contest, Shanghai (Nov, 2021).