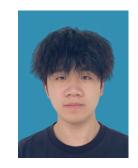
# **Kejing Chang**

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## **Educational Background**

September 2021 to June 2025 Xi'an Jiaotong-Liverpool University

B.S Information and Computing Science

**GPA**: 3.88/4.0

Main courses: Object-Oriented Programming, Algorithm Complexity, Problem Solving and Software Engineering, Introduction to Databases, Artificial Intelligence, Data Structure, Computer Networking.

#### Skill

• Programming: Java, Python, HTML, JavaScript, SQL and C

• Tools: Eclipse, Linux operating system, VS Code, NetBeans, VMware, Jupyter, XAMPP, Latex

• Language: Mandarin (native), English

## Research Experience

Jun 2023 to September 2023

Summer Undergraduate Research Fellowships Program

Research Fellow

Project Name: Research on Honeypot-based Hands-on Network Attack and Defense (Python Linux Virtual Machine)

- Developed series of attack experiments of Amun honeypot with different payloads using Metasploit on a Kali virtual machine.
- Based on the results of the experiment, the kernel modules was rewritten so that honeypot could provide emulated services (telnet and etc.) and respond to attackers
- The honeypot was deployed to the CloudLab (public network) and 3000+ attack data were obtained within two weeks, which was finally analyzed and collated for improving the honeypot

Result: Identified source code vulnerabilities, completed multiple log analysis, and processed attack data. Proposed directions for subsequent improvement. Devised the academic poster and participated in program exhibition.

### **Project**

Feb 2023 to Apr 2023

Xi'an Jiaotong-Liverpool University

Patients Classification (*Python*)

Requirement: Designed a classifier to classify health status of patients, according to the mark earned for 15 questions on 5344 candidates.

- Extracted data features and made the dimensionality reduction and correlation analysis of the given dataset.
- Built 3 classifiers in a supervised way (Logistic Regression, Support Vector Machine, Decision Tree) and recommended one classifier among the 3 candidate classifiers and overall results.
- Classified patients to different groups in an unsupervised manner (K-Means algorithm) and justified the final classification.

Result: The accuracy score of classifiers are all beyond 75% in Classification. While in clustering, the Silhouette Coefficient is 0.434 and CalinskiHarabasz Index is 5315.522, which both results have reached the reference standard.

#### Award

Xi'an Jiaotong-liverpool University Academic Excellence Award (10,000 CNY scholarship) 2021-2022

#### Self Evaluation

I am a junior three student majoring in Information and Computing Science. I have a good academic records and I am motivated, patient and careful, and have team spirit working with members. I love computers, and I have some understanding and application of related knowledge as well. I'm looking forward to learn more relevant knowledge in practice and applying it to actual scenarios.