

XU, Longyu

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Non-local, IANG Holder

EDUCATION

City University of Hong Kong

Hong Kong

Master of Science, Electronic Information Engineering

Sep.2023 - Jun.2024

- Relevant Courses: Software Engineering, Security Technology, Deep Learning, Complex Networks, Computer Vision

University of Electronic Science and Technology of China (UESTC)

Chengdu, China

Master of Engineering, Electrical Engineering

Sep.2018 - Jun.2021

- Scholarships & SCI papers & Patents

Chongqing Jiaotong University (CQJTU)

Chongqing, China

Bachelor of Engineering, Telecommunications Engineering

Sep.2014 - Jun.2018

- National Scholarships & Awards & Honors

TECHNICAL SKILLS

- **Programming Languages:** Golang, JavaScript, Python
- **Dev Frameworks & Tools:** React/Vue, Go-gin, SQL, Redis, Kafka, Nginx, RPC
- **Cloud & DevOps:** AWS/Azure, Docker, Kubernetes, CI/CD, Jenkins, Microservice
- **Miscellaneous:** Linux, Git, Unit Testing, Scrum, SIEM

(China's) Qualification of Computer and Software Technology Proficiency: *Programmer; Information Security Engineer*

(China's) National Computer Rank Examination: *C Language Programming; Network Technology*

WORK EXPERIENCES

CityU Student Helper(Software Developer)

Hong Kong

Web Developer & Assistant – Part time student helper (Hybird)

Nov.2023 – May.2024(7 months)

- Maintain and update the official website of NPMM built with **HTML** and WordPress.
- Assist in processing office documents and analyzing data.

LeapXpert HK Limited

Hong Kong

IT & Security Engineer – Intern (Hybird)

Jan.2024 – Feb.2024(2 months)

- Migrate & maintain the **SIEM** system to Wazuh platform, implementing decoders and rules based on logs.
- **Malicious activities** detection & alerting based on IP reputation grading system.

Zhongxing Telecommunication Equipment Corporation (ZTE)

Chongqing, China

Software Engineer – Full time (Onsite)

Jul.2021 - Dec.2022(1 year 6 months)

- Developed an ACL management **microservice** based on GoVPP using **Golang**, leveraging **Redis** for storing intermediate states. Registered **RESTful APIs** to an API gateway, achieving a unified access control solution.
- Designed and developed a log collection tool with Golang, uploading logs to a configured server via SFTP, providing a web-based configuration page built with **Vue.js** for seamless parameter setup. Additionally, an installation script written in **Shell** facilitates easy integration with other services.
- Led the development of a routing scheduling management microservice with Golang, which utilizes **Kafka** and Redis to capture upstream routing topology data changing. It calls the routing path calculation DLL through **CGO** and exposes RESTful APIs for downstream services to retrieve routes. It is packaged as a **Docker** image and deployed with **Kubernetes** for multi-instance deployment, ensuring scalability and high availability.

Shanghai BenPao Supply Chain Management Co., Ltd. (startup)

General Software Engineer – Intern (Remote)

Sep.2019 - Apr.2020(8 months)

- Developed a shopping mall-themed WeChat Mini Program using JavaScript based on the Mini Program documentation.
- Designed and Developed CRUD REST APIs for users using Python **Flask**, deploying service on a cloud platform and enhance service stability.

SELECTED PROJECTS

Contract Test Platform Based on PICT Tool | *Full stack developer*

Led the development of an automated contract testing platform using the Microsoft PICT tool. The frontend was built with **React.js**, and the backend utilized **go-gin**. The platform provides user registration and login, hierarchical authority management, log management, and multi-level contract test case management. It caters to nearly **200** department members. With an impressive **95%** effective output test case rate and over **80%** coverage, the platform significantly reduces manual test case creation costs. It is also integrated into a CI/CD pipeline, expediting project iterations.

Relevant skills: Javascript(Reactjs), Antd, Golang, PostgreSQL, Nginx

BoMan Dance Information Management System | *Full stack developer*

Developed a user information management system for a dance club using the **Vue.js** with **Element UI**, the system encompasses functionalities such as login, registration, check-in, log recording, permission management, and dashboard with charts. Additionally, the system incorporates **WebSocket** for real-time communication, ensuring timely updates and notifications. The frontend and backend components are bundled together using **Electron**, enabling seamless integration.

Relevant skills: Javascript(Vuejs), Websocket, Electron-vue, ElementUI, MySQL

ACADEMIC ACHIEVEMENTS

- Chen, Yong & **Xu, Longyu** & Li, Meng. [Sliding mode control for direct current motor system with multi-channels and external disturbances](#). Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering. (2021, JCR Q4, Student First Author)
- **Xu, Longyu** & Chen, Yong & Li, Meng. [Sliding Mode Resilient Control for TOD-based Servo System Under DoS Attack](#). International Journal of Control, Automation and Systems. (2022, JCR Q2, First Author)
- **Xu, Longyu** & Chen, Yong & Li, Meng & Zhang, Longjie & Mahmoud, Gafary. [Extended Observer-Based Hybrid Tracking Control Strategy for Networked System with FDI Attacks](#). Asian Journal of Control. (2023, JCR Q3, First Author)
- Li, Meng & Chen, Yong & **Xu, Longyu** & Chen, Zhangyong. [Asynchronous control strategy for semi-Markov switched system and its application](#). Information Sciences. (2020, JCR Q1, assistant)
- Meng Li, **Longyu Xu**, Yong Chen, etc. [A control method of multi-channel DC motor system based on second-order super-twisting sliding mode](#). China, Invention Patent. CN110620528A, December 27, 2019
- Meng Li, Yong Chen, **Longyu Xu**, etc. [An adaptive event-triggered asynchronous sliding mode control method for random jump systems](#). China, Invention Patent. CN111650835A, September 11, 2020
- AnJian Zhou, Yong Chen, **Longyu Xu**, etc. [A data-driven vehicle electromagnetic interference suppression method](#). China, Invention Patent, CN112084714A, December 15, 2020
- Meng Li, **Longyu Xu**, Longjie Zhang, etc. [An asynchronous control method of DC-DC converter](#). China, Invention Patent, CN110429808B, January 26, 2021
- Meng Li, Yong Chen, **Longyu Xu**, etc. [A security control method of networked system based on extended observer](#). China, Invention Patent, CN112596387A, April 2, 2021