

XU, Longyu

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Non-local, eligible to hold IANG VISA after graduation (June 2024)

EDUCATION

City University of Hong Kong	Hong Kong
<i>Master of Science, Electronic Information Engineering</i>	Sep.2023 - Jun.2024 (Anticipated)
<ul style="list-style-type: none">Relevant Courses: Software Engineering, Security Technology, Deep Learning, Complex Networks, Computer Vision	
University of Electronic Science and Technology of China (UESTC)	Chengdu, China
<i>Master of Engineering, Electrical Engineering</i>	Sep.2018 - Jun.2021
<ul style="list-style-type: none">Thesis: Research on Security Control of Networked System Based on Sliding ModeScholarships & SCI papers & Patents	
Chongqing Jiaotong University (CQJTU)	Chongqing, China
<i>Bachelor of Engineering, Telecommunications Engineering</i>	Sep.2014 - Jun.2018
<ul style="list-style-type: none">Thesis: Communication system simulation based on e-Labsim (Text and voice transmission)National Scholarships & Awards & Honors	

WORK EXPERIENCES

LeapXpert HK Limited	Hong Kong
<i>IT & Security Engineer – Intern (Hybird)</i>	Jan.2024 – Feb.2024(2 months)
<ul style="list-style-type: none">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.	
Hong Kong Branch of National Precious Metals Material Engineering Research Center at CityU	Hong Kong
<i>Web Developer & Assistant – Part time student helper (Hybird)</i>	Nov.2023 – Now
<ul style="list-style-type: none">Maintain and update the official website of NPMR built with HTML and WordPress.Assist in processing office documents and analyzing data.	
Zhongxing Telecommunication Equipment Corporation (ZTE)	Chongqing, China
<i>Software Engineer – Full time (Onsite)</i>	Jul.2021 - Dec.2022(1 year 6 months)
<ul style="list-style-type: none">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)	
<i>General Software Engineer – Intern (Remote)</i>	Sep.2019 - Apr.2020(8 months)
<ul style="list-style-type: none">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.	

TECHNICAL SKILLS

- Programming Languages:** Golang, JavaScript, Python, C, HTML
- Dev Frameworks & Tools:** SQL, Redis, Kafka, Nginx, gRPC
- 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*

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