

Kaiqiang Xu

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EDUCATION

Renmin University of China

Beijing, China

B.S. Computer Science

Class of 2017

Coursework includes Operating System, Computer Networking, Digital Image Processing, Cryptology, Compiler Theory, Algorithm Analysis, Graph Theory and Math Analysis.

RESEARCH INTEREST

Networking Applications, Protocols and Infrastructures

Computer Architecture and Operating Systems

Distributed Databases and Data Processing

AWARDS

National University Student Innovation Scheme

Beijing, China

Highest Remark

March 2015

Research Project: Internet-based Collaborative Software Engineering

Using the idea behind the microkernel architecture pattern in Unix-like systems, we proposed microservices architecture and network protocols in distributed systems. This approach decouples complex software logic and reduces difficulties in development collaboration.

ACM International Collegiate Programming Contest

Zhejiang, China

Silver Medal (Asia Regional)

October 2012

PROFESSIONAL EXPERIENCE

Vincross Robotics

San Francisco, CA & Beijing, China

Chief Operating Officer

May 2016 to Present

Bring emerging consumer robotics technology to international markets

- Manage all robotics engineering activities to implement robotic products, including product prototyping, software engineering and embedded engineering on ARM Cortex-A53 and Cortex-M
- Designed the proprietary robot operating system MIND OS (see below for details)
- Lead, manage and grow a 60+ member engineering team internationally

Create MIND OS, a universal robotics OS and SDK

- MIND is based on the Linux kernel and is optimized for robots, MIND OS has its own abstraction layer to manage processes, networking, applications, and peripherals on robot devices
- MIND OS SDK is built with Go language, can integrate third-party libraries such as ROS/OpenCV
- MIND OS Cloud Service enables network communication between robots and mobile/IoT devices
- Website: <https://www.vincross.com/mind> / Documentation: <https://documentation.vincross.com/>

Career Dream Technology Limited

Beijing, China

Chief Technology Officer

September 2014 to May 2016

- Designed and operated an online job search engine for both job seekers and recruiters
- Designed microservice architecture including pub/sub, load balancer, and data access layer
- Implemented methodologies and processes that deliver reliable websites and mobile applications, including unit testing, continuous integration, release management, and product documentation

REFERENCE

Prof. Xiaoyong Du

Professor and Dean, School of Information, Renmin University of China

Prof. Qing Zhu

Professor of Computer Science, Renmin University of China

Prof. Hui Sun

Associate Professor of Computer Science, Renmin University of China