

# Kaiqiang Xu

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## EDUCATION

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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

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Networking Applications, Protocols and Infrastructures  
Computer Architecture and Operating Systems  
Distributed Databases and Data Processing

## AWARDS

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National University Student Innovation Program Beijing, China  
Highest Remark March 2015

Research Project: Internet-based Collaborative Software Engineering  
Based on the fundamental concept of 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

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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
- 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 applications, networking and peripherals on robot devices
- Created a developer-friendly SDK that would fulfill the real-time requirements throughout the development of applications for robots by integrating with real-time OS
- MIND OS Cloud Service enables communication between robots and remote devices
- Link: [www.vincross.com/mind](http://www.vincross.com/mind), documentation: [documentation.vincross.com](http://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: data access layer, pub/sub and load balancer
- Implemented methodologies and processes that deliver reliable websites and mobile applications, including unit testing, continuous integration, release management, and product documentation