

# Yuanzhe Rijn Bian

## Undergraduate Student

Mathematics & Computer Science  
University of Illinois at Urbana - Champaign

311 E WHITE ST, APT 30  
Champaign, IL 61820  
(217) 979-1882  
<http://www.rijnx.com/>  
yb3@illinois.edu

## EDUCATION

- Bachelor of Science*, Mathematics & Computer Science Aug 2016 – Current  
University of Illinois at Urbana - Champaign, Champaign, IL, USA  
College of Liberal Arts & Science  
GPA 3.98  
Advisor: Stephen M. Herzog
- Bachelor of Engineering*, Telecommunication Engineering (Transferred) Sep 2014 – Jul 2016  
Nanjing University of Posts and Telecommunications, Nanjing, Jiangsu, China  
School of Communication and Information Engineering  
GPA 3.7, Top 5%  
Advisor: Mingcheng Qin
- Jinling High School, Nanjing, Jiangsu, China Jun 2014
- High School Affiliated to Nanjing Normal University Shuren Campus, Nanjing, Jiangsu, China Jun 2011

## EXPERIENCE

- EnterpriseWorks* Jan 2018 – Present  
Software Engineer Internship
- NextCapital Group* Sep 2017 – Dec 2017  
Remote Software Engineer Internship
- NextCapital Group* Jun 2017 – Aug 2017  
Software Engineer Internship
- Front-end group. Maintained NextCapital's front-end software which is written in Angular and React.
  - Upgraded the unit test framework. Result in > 50% time saving on the CI by applying the new environment.
  - Developed an intelligent report generator which can help the manager generating weekly target completion report by analyzing data from the time tracker automatically.
  - Collaborated with other interns to create a document generator which can generate the document based on the codebase.
- UmiUni, LLC* Feb 2017 – Nov 2017  
Co-founder
- Designed whole software architect. Participated and contributed to all projects, including design, programming, unit testing, code review and deployment planning. Developed back-end server powered by Node.js. Also developed front-end app by Vue.js, and contributed to the iOS App by RN.
- Dexta Robotics, Inc.* Mar 2014 – Current  
Co-founder
- Designed import devices for hand-motion detection, and designed the circuit board for these devices.

- Designed a 2.4G wireless dongle for pulling data from Dexmo.
- Developed an embedded system for Dexmo. Built the website.
- Designed some steering motor circuit.

*NUPT Department of Party Committee Propaganda*  
 Technical Advisor

Apr 2015 – Jun 2016

- Led a group and designed a high-performance distributed system to fetch data from official systems.
- Designed a tunnel to cross LAN firewall.
- Wrote a class that using computer vision and machine learning techniques to identify verification code.
- Implemented a load-balancing RESTful API service and a web-app that has one million PV per year.

*NUPT Student Association of Science and Technology*  
 Student Lecturer

Dec 2014 – Jun 2015

*Extreme Memory*  
 Web Designer & Developer

Sep 2014 – Jun 2016

- Designed an online application to teach users memorizing methods and provide online memory tests.
- Wrote an SDK for native JavaScript for adding login, authorization and score submission API calls.
- Wrote a server powered by Node.js and MySQL.

## PUBLICATIONS

See <https://goo.gl/UWvADs> for a research impact summary compiled by Google Scholar.

### Conference Proceedings

- Dexmo: An Inexpensive and Lightweight Mechanical Exoskeleton for Motion Capture and Force Feedback in VR  
*X Gu, Y Zhang, W Sun, Y Bian, D Zhou, PO Kristensson*  
 Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems

## OPEN SOURCE

See <https://github.com/rijn> for all the projects I contributed to.

*iView*

<https://github.com/iview/iview>

A UI components library for Vue.js.

- Wrote some components for it.
- Bug fixes.

*PHP-Verify-Code-Identification-Class*

<https://github.com/rijn/PHP-Verify-Code-Identification-Class>

A native PHP class implementing some simple computer vision algorithms for character recognition.

*Alipay Python SDK*

<https://github.com/lxneng/alipay>

An Alipay API SDK for Python.

## HONORS & AWARDS

*First Prize in Collegiate Electronic Design Contest*

Dec 2015

Nanjing University of Posts and Telecommunications, Nanjing, Jiangsu, China

<i>First Prize in Collegiate Electronic Design Contest</i> Nanjing University of Posts and Telecommunications, Nanjing, Jiangsu, China	Dec 2014
<i>First Prize in China Adolescents Science and Technology Innovation Contest</i> Ministry of Education of the People's Republic of China China Association for Science and Technology	Jul 2014
<i>Adolescents Technological Innovation Award in Province</i> People's Government of Jiangsu Province	Jul 2014
Mao Yisheng Prize for Science and Technology	

### **INTERESTS**

Algorithms, Software Engineering, Computer Vision, Artificial Intelligence, Machine Learning  
Cooking, Photography

### **CITIZENSHIP**

P.R.China