

# Yuanzhe Rijn Bian

## Undergraduate Student

Computer Science & Mathematics  
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

|   |                     |
|---|---------------------|
| <i>Bachelor of Science</i> , Mathematics<br>University of Illinois at Urbana - Champaign, Champaign, IL, USA<br>College of Liberal Arts & Science   | Nov 2018 – Current  |
| <i>Bachelor of Engineering</i> , Computer Science<br>University of Illinois at Urbana - Champaign, Champaign, IL, USA<br>College of Engineering<br>GPA 3.98<br>Advisor: Stephen M. Herzog   | Aug 2016 – Current  |
| <i>Bachelor of Engineering</i> , Telecommunication Engineering (Transferred)<br>Nanjing University of Posts and Telecommunications, Nanjing, Jiangsu, China<br>School of Communication and Information Engineering<br>GPA 3.7, Top 5%<br>Advisor: Mingcheng Qin | Sep 2014 – Jul 2016 |
| Jinling High School, Nanjing, Jiangsu, China  | Jun 2014            |
| High School Affiliated to Nanjing Normal University Shuren Campus, Nanjing, Jiangsu, China  | Jun 2011            |

## EXPERIENCE

|  |                     |
|--|---------------------|
| <i>Facebook</i><br>Software Developer Internship   | May 2018 – Present  |
| <i>Chirp Social Networking, Inc.</i><br>Co-founder   | Feb 2018 – Present  |
| <i>University of Illinois Research Park</i><br>Software Engineer Internship at EnterpriseWorks   | Jan 2018 – May 2018 |
| <i>NextCapital Group</i><br>Remote Software Engineer Internship  | Sep 2017 – Dec 2017 |
| <i>NextCapital Group</i><br>Software Engineer Internship   | Jun 2017 – Aug 2017 |
| <ul style="list-style-type: none"><li>• Front-end group. Maintained NextCapital's front-end software which is written in Angular and React.</li><li>• Upgraded the unit test framework. Result in &gt; 50% time saving on the CI by applying the new environment.</li><li>• Developed an intelligent report generator which can help the manager generating weekly target completion report by analyzing data from the time tracker automatically.</li></ul> |                     |

- 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*

Apr 2015 – Jun 2016

Technical Advisor

- 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*

Dec 2014 – Jun 2015

Student Lecturer

*Extreme Memory*

Sep 2014 – Jun 2016

Web Designer & Developer

- 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

*First Prize in Collegiate Electronic Design Contest*      Dec 2014  
Nanjing University of Posts and Telecommunications, Nanjing, Jiangsu, China

*First Prize in China Adolescents Science and Technology Innovation Contest*      Jul 2014  
Ministry of Education of the People's Republic of China  
China Association for Science and Technology

*Adolescents Technological Innovation Award in Province*      Jul 2014  
People's Government of Jiangsu Province

Mao Yisheng Prize for Science and Technology

## INTERESTS

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

## CITIZENSHIP

P.R.China