

# Yuanzhe (Rijn) Bian

**Software Engineer**  
Meta

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## EDUCATION

*Bachelor of Science*, Mathematics  
University of Illinois at Urbana - Champaign  
College of Liberal Arts & Science

Nov 2018 – Dec 2018  
Champaign, IL, USA

*Bachelor of Engineering*, Computer Science  
University of Illinois at Urbana - Champaign  
College of Engineering  
GPA 3.98, 2019 University Honors, Top 3%  
Advisor: Stephen M. Herzog

Aug 2016 – Dec 2018  
Champaign, IL, USA

*Bachelor of Engineering*, Telecommunication Engineering (Transferred, No Degree)  
Nanjing University of Posts and Telecommunications  
School of Communication and Information Engineering  
GPA 3.7, Top 5%  
Advisor: Mingcheng Qin

Sep 2014 – Jul 2016  
Nanjing, Jiangsu, China

Jinling High School, Nanjing, Jiangsu, China

Jun 2014

High School Affiliated to Nanjing Normal University Shuren Campus, Nanjing, Jiangsu, China

Jun 2011

## EXPERIENCE

*Meta*  
Software Engineer

Feb 2019 – Present  
Menlo Park, CA

- Working at Reality Lab. Developing real-time communication calling solution on new products.
- Worked on telephony and Bluetooth integration and compliance on Reality Lab. Built dialer application on Android.
- Worked on Ads Manager App Team. Built the React Native ad interface for advertisers. Rewrote most of the pages with strong type Flow.

*University of Illinois Research Park, EnterpriseWorks*  
Software Engineer Internship

Sep 2018 – Dec 2018  
Champaign, IL

*Meta*  
Software Engineer Internship

May 2018 – Aug 2018  
Menlo Park, CA

- Worked on Spatial Computing Team. Helped to improve the geolocation data visualization tool.
- Designed and implemented an augmented reality navigation x-plat App. Worked with indoor localization group and map generation group.

*Chirp Social Networking, Inc.*  
Co-founder

Feb 2018 – Dec 2018  
Champaign, IL

- Designed and built React-Native x-platform app for anonymous social network.

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| <i>University of Illinois Research Park, EnterpriseWorks</i><br>Software Engineer Internship  | Jan 2018 – May 2018<br>Champaign, IL   |
| <ul style="list-style-type: none"> <li>• Developed student portal mobile application for research park.</li> <li>• Worked on a summit registration form website using Salesforce.</li> </ul>  |  |
| <i>NextCapital Group</i><br>Remote Software Engineer Internship   | Sep 2017 – Dec 2017<br>Chicago, IL     |
| <i>NextCapital Group</i><br>Software Engineer Internship  | Jun 2017 – Aug 2017<br>Chicago, IL     |
| <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> <li>• Collaborated with other interns to create a document generator which can generate the document based on the codebase.</li> </ul> |  |
| <i>UmiUni, LLC</i><br>Co-founder  | Feb 2017 – Nov 2017<br>Champaign, IL   |
| <ul style="list-style-type: none"> <li>• Designed architecture for online marketplace. Led software 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.</li> </ul>   |  |
| <i>Dexta Robotics, Inc.</i><br>Co-founder   | Mar 2014 – Aug 2016<br>Shenzhen, China |
| <ul style="list-style-type: none"> <li>• Designed circuit board of input devices for hand-motion detection.</li> <li>• Designed a 2.4G wireless dongle for pulling data from Dexmo.</li> <li>• Developed an embedded system for Dexmo. Built the website.</li> <li>• Designed some steering motor circuit.</li> </ul>   |  |

## VOLUNTEER EXPERIENCE

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|---|---------------------------------------|
| <i>Nanjing University of Posts and Telecommunications</i><br>Technical Supervisor   | Apr 2015 – Jun 2016<br>Nanjing, China |
| <ul style="list-style-type: none"> <li>• Led a group and designed a high-performance distributed system to fetch data from official systems.</li> <li>• Designed a tunnel to cross LAN firewall.</li> <li>• Implemented a load-balancing RESTful API service and a web-app that has one million PV per year.</li> </ul>     |                                       |
| <i>Nanjing University of Posts and Telecommunications</i><br>Student Lecturer at Student Association of Science and Technology  | Dec 2014 – Jun 2015<br>Nanjing, China |
| <i>Extreme Memory</i><br>Web Designer & Developer   | Sep 2014 – Jun 2016<br>Nanjing, China |
| <ul style="list-style-type: none"> <li>• Designed an online application to teach users memorizing methods and provide online memory tests.</li> <li>• Wrote an SDK for native JavaScript for adding login, authorization and score submission API calls.</li> <li>• Wrote a server powered by Node.js and MySQL.</li> </ul> |                                       |

## 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
- Opico: A Study of Emoji-first Communication in a Mobile Social App  
*S Khandekar, J Higg, Y Bian, C Won Ryu, J O Talton Iii, R Kumar*  
Companion Proceedings of The 2019 World Wide Web Conference, 450-458

## 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.

*react-native-emoji-input*

<https://github.com/sskhandek/react-native-emoji-input>

The most powerful emoji input source in React Native.

- Main contributor.

*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

*Bronze Tablet 2018*

Dec 2018

University of Illinois at Urbana - Champaign, Champaign, IL, USA

*LAS Fall 2017 Dean's List*

Jan 2018

University of Illinois at Urbana - Champaign, Champaign, IL, USA

*LAS Spring 2017 Dean's List*

Jun 2017

University of Illinois at Urbana - Champaign, Champaign, IL, USA

*LAS Fall 2016 Dean's List*

Jan 2016

University of Illinois at Urbana - Champaign, Champaign, IL, USA

*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

<i>First Prize in China Adolescents Science and Technology Innovation Contest (CASTIC)</i> Ministry of Education of the People's Republic of China China Association for Science and Technology	Jul 2014
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<i>Adolescents Technological Innovation Award in Province</i> People's Government of Jiangsu Province	Jul 2014
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<i>Mao Yisheng Prize for Science and Technology</i>	Jul 2014
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## **INTERESTS**

Software Engineering, Mobile Development, Electronic Design  
Cooking, Photography, Lego

## **CITIZENSHIP**

P.R.China