

Yuanzhe (Rijn) Bian

Software Engineer
Facebook

7341 Carter Ave
Newark, CA 94560
(217) 979-1882
<http://rijn.io/>
rijn@fb.com

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
Advisor: Stephen M. Herzog

Aug 2016 – Dec 2018
Champaign, IL, USA

Bachelor of Engineering, Telecommunication Engineering (Transferred)
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

Facebook
Software Developer Internship

Feb 2019 – Present
Menlo Park, CA

- Working on AR/VR.
- Worked on Ads creation.

University of Illinois Research Park, EnterpriseWorks
Software Engineer Internship

Sep 2018 – Dec 2018
Champaign, IL

Facebook
Software Developer 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. Fulfilled the group plan two months ahead of schedule.

Chirp Social Networking, Inc.
Co-founder

Feb 2018 – Dec 2018
Champaign, IL

University of Illinois Research Park, EnterpriseWorks
Software Engineer Internship

Jan 2018 – May 2018
Champaign, IL

- Designed manager system and SPA framework on Salesforce.

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| <i>NextCapital Group</i> Remote Software Engineer Internship | Sep 2017 – Dec 2017 Chicago, IL |
| <i>NextCapital Group</i> Software Engineer Internship | Jun 2017 – Aug 2017 Chicago, IL |
| <ul style="list-style-type: none"> • 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. | |
| <i>UmiUni, LLC</i> Co-founder | Feb 2017 – Nov 2017 Champaign, IL |
| <ul style="list-style-type: none"> • 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. | |
| <i>Dexta Robotics, Inc.</i> Co-founder | Mar 2014 – Present Shenzhen, China |
| <ul style="list-style-type: none"> • 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. | |

VOLUNTEER EXPERIENCE

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| <i>Nanjing University of Posts and Telecommunications</i> Technical Supervisor | Apr 2015 – Jun 2016 Nanjing, China |
| <ul style="list-style-type: none"> • 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. | |
| <i>Nanjing University of Posts and Telecommunications</i> Student Lecturer at Student Association of Science and Technology | Dec 2014 – Jun 2015 Nanjing, China |
| <i>Extreme Memory</i> Web Designer & Developer | Sep 2014 – Jun 2016 Nanjing, China |
| <ul style="list-style-type: none"> • 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
- 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.

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

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, Lego

CITIZENSHIP

P.R.China