Yuanzhe Rijn Bian

Software Engineer   http://www.rijn.io/
Facebook   rijn@fb.com

EDUCATION

Bachelor of Science, Mathematics   Nov 2018 – Current
University of Illinois at Urbana - Champaign   Champaign, IL, USA
College of Liberal Arts & Science

Bachelor of Engineering, Computer Science   Aug 2016 – Current
University of Illinois at Urbana - Champaign   Champaign, IL, USA
College of Engineering
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

Facebook   Feb 2019 – Present
Software Engineer   Menlo Park, CA

University of Illinois Research Park, EnterpriseWorks   Sep 2018 – Dec 2018
Software Engineer Internship   Champaign, IL

Facebook   May 2018 – Aug 2018
Software Developer Internship   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.   Feb 2018 – Dec 2018
Co-founder   Champaign, IL

University of Illinois Research Park, EnterpriseWorks   Jan 2018 – May 2018
Software Engineer Internship   Champaign, IL

- Designed manager system and SPA framework on Salesforce.

NextCapital Group   Sep 2017 – Dec 2017
Remote Software Engineer Internship   Chicago, IL

NextCapital Group   Jun 2017 – Aug 2017

Software Engineer Internship   Chicago, IL

- 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   Champaign, IL

- 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 – Present
Co-founder   Shenzhen, China

- 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.

Nanjing University of Posts and Telecommunications, Department of Publicity   Apr 2015 – Jun 2016
Technical Advisor   Nanjing, China

- 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.

Nanjing University of Posts and Telecommunications, Student Association of Science and Technology   Dec 2014 – Jun 2015
Student Lecturer   Nanjing, China

Extreme Memory   Sep 2014 – Jun 2016
Web Designer & Developer   Nanjing, China

- 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 Techinology

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

Mao Yisheng Prize for Science and Technology   Jul 2014

INTERESTS

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

CITIZENSHIP

P.R.China