

# XUE ZOU

COMPUTER SCIENCE & MATHEMATICS MAJOR

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[xuezzou.github.io/ilmam](https://xuezzou.github.io/ilmam)

[github.com/xuezzou](https://github.com/xuezzou)

## EDUCATION

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### Vanderbilt University

Nashville, TN (2017–2021)

- Bachelor of Science in Computer Science & Mathematics, Music Minor
- GPA: 4.0/4.0
- Activities: [VandyHacks](#) Dev Team, VandyFOSS(Free and open source) Initiator, Code Ignite, Concert Choir
- Relevant Coursework: Data Structure and Software Design, Intermediate Software Design, Algorithms, Web-based Architecture, Introduction to Visualization, Probability and Statistics

## SKILLS

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**Technical Skills** C++, Python, Javascript, Web Development(React, Node.js, Express), MongoDB, D3.js, PyTorch

**Languages** English, Japanese, Traditional/Simplified Chinese

**Art Technology** Adobe Photoshop, Illustrator, Premiere Pro, After Effects

## WORK EXPERIENCE

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### Pingan Technology

Algorithm Engineer Intern

Shenzhen, China (Summer 2019)

- Researched on various topics and development of deep learning in natural language processing
- Designed judicial reading comprehension model using around 30k Chinese judicial documents and applying Google BERT model; currently placed the first on the leaderboard of [Chinese AI Law Challenge](#)

### Institute for Software Integrated Systems

[Software Engineer Intern](#)

Nashville, TN (Summer 2018)

- Developed auto-scribing program using Google Cloud Platform, AWS and IBM Watson speech to text services
- Designed web interface using HTML5, CSS, JavaScript and Web MediaDevices APIs;
- Explored the possibility of building a medical information extractor from scratch using NLTK platform and Stanford NLP tools as well as CCG practices;

### Vanderbilt University

Undergraduate Teaching Assistant for *Data Structure and Software Design*

Nashville, TN (Aug 2018 - Present)

- Guided and tutored students in weekly 4+ office hours; consistently received positive evaluations from others
- Evaluated over 100+ students projects and assignments with detailed and thoughtful feedbacks

## PERSONAL PROJECTS

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### Solitaire Game Web App

(Aug-Dec 2018)

- Developed a web-based Klondike Solitaire SPA app using *MongoDB & Mongoose* for data persistence, popular js framework such as *React* for client side, *Redis* for caching, *Node.js* and *Express* for the server
- Built based on *RESTful* APIs; Explored the possibilities of using *GraphQL* over *REST*
- Won the *most attractive application* voted by other students

### Exploring UFO Sightings

(Nov-Dec 2018)

- Designed and implemented visulization and interaction of over 80,000 data items across different attributes using *d3.js* library; Conducted analysis of trend and patterns across time, geo, shape and duration

### Wechat Birthday & Wechat Praising Chatbot

(Jun 2019)

- Built a python app that could auto-send messages to wechat friends or groups on specific date and time
- Designed a wechat chatbot that always gives positive compliment in reply to messages; built upon data crawled from douban praising groups, where people always compliments each other

## VOLUNTEER EXPERIENCE & INTERESTS

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### Mentor & Instructor, Code Ignite

(Aug 2017 - Present)

- Taught basic knowledge about coding; inspired local minority high school student to STEM-related fields

**Interests** Piano, Literature, Travel, Cooking