

# David Yunxin Zhang

Developer & Dreamer

(217) 721-5700 | [yzhng223@illinois.edu](mailto:yzhng223@illinois.edu) | [yx-z.github.io](https://yx-z.github.io)

"Fortunately, life is never easy."

---

## EDUCATION **University of Illinois at Urbana Champaign** - GPA: 4.00/4.00

- B.S. in Mathematics and Computer Science: 2015–2019
- Minor in Statistics: 2017–2019

---

## WORK **Socio-Technical Risk Analysis Lab:** Spring 2017

- learn about risk analysis topics like fault trees and event trees
- build fundamental tools in Java for risk analysis

## **Cyber Physical Systems Integration Lab:** Spring 2017

- improve a heart transplant system with Java Swing, XML parsing, etc.
- write guides and documentation for the software system

## **Undergrad Research Group in Math Department:** Fall 2016 - Now

- created a weather forecast app based on statistical analysis of past data
- performed computerized mathematical research in number theories

## **Computer Science Course Assistant:** Spring and Fall Semester, 2016

- organized lab and discussion sections and held office hours
- practiced pedagogy and communication skills

---

## EXPERIENCE **Weather Forecast Analysis:** Fall 2016 - Spring 2017

- collected 10+ GB of data in Python and Shell
- built climatology, persistence and other statistical models in R
- created interactive heat map with Google KML and Fusion Tables for results
- presented a poster and gave speech at Joint Math Meeting 2017

## **The Mathematical Contest in Modeling:** Spring 2017

- attend pre-contest meetings and prepare for MCM 2017

## **Github Repositories:** Spring 2015 - Now

- constructed frontend with Bootstrap and an Android App of What2Wear
- solved over 70 Project Euler problems, posted online and studied algorithms
- developed Java/Android apps such as web crawler, timer and mini games
- built a cross-platform RPG game in JavaScript and receive hundreds of views
- keep notes of classic programming books, new libraries and online tutorials

## **Computer Science Community Membership:** Fall 2015 - Now

- ACM, SIG-Mobile: give weekly tutorials about Android development
- ADSA: attend workshops on data sciences, volunteered at Big Data Summit

---

## SKILL **Programming:**

- Java 8, Android, Java Web, HTML/CSS/Js, R, C++, MySQL, Kotlin, Python, Ruby

## **Tools:**

- Vim, Zsh, Git, IntelliJ IDEA, Tomcat, Photoshop, Markdown, LaTeX