

# David Yunxin Zhang

Developer & Dreamer

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"Fortunately, life is never easy."

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## 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

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## 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

### **Undergraduate Research 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

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## 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 Android App of a What2Wear
- 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
- solved over 70 Project Euler problems, posted online and studied algorithms

### **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

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## 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