# David Yunxin Zhang Developer & Dreamer

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"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 Cyber-Physical Systems Integration Lab: Spring 2017

- improve a heart transplant system with Java Swing, XML parsing, etc.
- perform GUI tests with Ranorex, write documentation with codeBeamer

## Socio-Technical Risk Analysis Lab: Spring 2017

- learn about classical risk analysis topics like fault trees and event trees
- build development tools in Java for Integrated Probabilistic Risk Assessment

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

- created a weather forecast app based on statistical analysis of past data
- performed computerized mathematical <u>research</u> 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 weather data in Python and Shell for 4000 locations
- built climatology, persistence and other statistical models in R
- created interactive heat map with Google KML and Fusion Tables for results
- presented at Joint Math Meeting, was awarded top 15% of 300 projects

#### Github Repositories: Spring 2015 - Now

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

# The Mathematical Contest in Modeling: Spring 2017

- built traffic models for autonomous cars to improve safety and efficiency
- visualized 200 thousand lines of traffic data with heat map

#### 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
- Cornfield Coder Group: visualize geological data with D3.js, and WebGL

#### 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