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 **EnterpriseWorks：** Summer 2017
- maintain WordPress website

Cyber-Physical Systems Integration Lab： Spring 2017
- optimize 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

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, 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

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
- won Honorable Mention, top 20% of all participants

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

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