David Yunxin Zhang Developer & Dreamer

(217) 721-5700 | [yzhng223@illinois.edu](mailto:yzhng223@illinois.edu%20) | [yx-z.github.io](https://yx-z.github.io/) “*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 |
| Work |  | **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   **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   **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](https://github.com/yx-z/MathResearch/tree/master/number-theory) 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 Ana](https://github.com/yx-z/MathResearch/tree/master/weather-analysis)****[lysis](https://github.com/yx-z/MathResearch/tree/master/weather-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   **The Mathematical Contest in Modeling:** Spring 2017   * attending pre-contest meetings and preparing for MCM 2017   **[Github Repositories](https://github.com/yx-z):** Spring 2015 - Now   * constructed frontend with Bootstrap and an Android App of [What2Wear](https://github.com/What2Wear/what2wear) * solved over 70 Project Euler problems, [posted online](https://github.com/yx-z/ProjectEuler) and studied algorithms * developed Java/Android apps such as [web crawler](https://github.com/yx-z/Playground/tree/master/CommandLineApp/WebCrawler), [timer](https://github.com/yx-z/AndroidProjects/tree/master/Timer) and [mini games](https://github.com/yx-z/Conttack) * built a [cross-platform RPG game](https://github.com/yx-z/ASweetNightDream) in JavaScript and receive hundreds of views * keep [notes](https://github.com/yx-z/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   **Tool****s:**   * Vim, Zsh, Git, IntelliJ IDEA, Tomcat, Photoshop, Markdown, LaTex |