

# DAVID YUNXIN ZHANG

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## EDUCATION

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### University of Illinois at Urbana-Champaign

Aug 2015 - May 2019

- B.S. in Mathematics and Computer Science
- Minor in Statistics

Overall GPA: 4.00/4.00

## POSITIONS

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### EnterpriseWorks Incubator — Research Park

May 2017 - Present

*Web Developer*

*Champaign, IL*

- maintained **Salesforce** database, analyzed user data and constructed web apps in **Visualforce** and **Apex**
- developed and deployed over 10 websites for startup companies with **jQuery** and **WordPress** Framework

### Cyber Physical Systems Integration Lab

Jan 2017 - Present

*Research Assistant*

*Champaign, IL*

- reduced boot time for a *Heart Transplantation System* in **Java Swing** by optimizing caching mechanism
- performed GUI tests with **Ranorex** automation and wrote detailed documentation in **codeBeamer**

### Socio-Technical Risk Analysis Lab

Jan 2017 - May 2017

*Research Assistant*

*Champaign, IL*

- implemented a *Fault Tree* evaluation module with **boolean algebra** support and probability calculation
- built a *Probabilistic Risk Analysis* software with **JavaFx** GUI framework and **JFoenix** Material Design library

## EXPERIENCE

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### Weather Forecast Analysis

Sep 2016 - Apr 2017

- collected **10 GB** of daily weather data **automatically** in Python and Shell Script with **Cron** for 4000 locations
- built climatology, persistence, multiple linear regression and other **statistical models** in R
- created interactive maps with Google **Fusion Tables** for data visualization
- presented at *Joint Math Meeting*, and was awarded with **Outstanding Poster**(top 15% of 300 projects)

### The Mathematical Contest in Modeling

Jan 2017

- built traffic models for autonomous cars to improve safety and efficiency
- visualized 200 thousand lines of traffic data with **heatmap.js** and **JHeatChart**
- won **Honorable Mention**(top 20% of all participants)

### Cornfield Coders Group

Feb 2017 - Present

- **founding member** of the Registered Student Organization
- aim at taking projects from companies and clients within UIUC and **leading** students to work on them
- visualized the **geological data** in 2D with **d3.js** and in 3D with **plotly.js**

## SKILLS

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### Programming

- Java 8(Functional Programming and Stream API), Android, Kotlin, HTML/CSS/Js, R, C++, Python, MySQL

### Tools

- Vim, Git, IntelliJ IDEA(JetBrains Platform IDE), Zsh, Photoshop, Markdown, L<sup>A</sup>T<sub>E</sub>X