

# DAVID (YUNXIN) ZHANG

(217)721-5700 ◇ yz2578@cornell.edu ◇ github.com/yx-z

## EDUCATION

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### Cornell University, Cornell Tech

*Aug 2019 - May 2020*

- Master of Engineering in Computer Science

### University of Illinois at Urbana-Champaign

*Aug 2015 - May 2019*

- Bachelor of Science in Mathematics and Computer Science

GPA: 4.0/4.0

## PROFESSIONAL EXPERIENCES

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### Laboratory for Parallel Numerical Algorithms

*Jan 2019 - Present*

Research Assistant

- Conducted research on scientific computing and was mentored by Prof. Edgar Solomonik.
- Designed, implemented, and benchmarked several **parallel algebraic graph algorithms** for connectivity.
- Participated in weekly group meetings and presented related thesis work to other members.

### Verizon Media (Yahoo!)

*May 2018 - Aug 2018*

Data Engineer Intern

- Worked in the **Data Highway** team that facilitates petabytes of big data transportation.
- Designed and implemented a web service with **Jetty** and **Redis** that reports event counts and data loss.
- Tested and deployed the web service to multiple hosts in different geolocations with **Chef** automation platform.

## PROJECTS

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### Weather Forecast Analysis

*Sep 2016 - May 2017*

- Collected 10+GB of weather data automatically in **Python** and **Shell Script** with **Cron** for 4000+ locations.
- Built **Climatology**, **Multiple Linear Regression** and other statistical models in **R** programming language.
- Created interactive climate maps with **heatmap.js** and Google **Fusion Tables** for data visualization.

### Cornfield Coders Group

*Feb 2017 - Sep 2017*

- Joined as a **founding member** of the Registered Student Organization
- Took projects from companies and departments within the university and **led** group members to work on them.
- Visualized multi-layered 3D geological data in browsers with **plotly.js**.

## HONORS

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- University Honors (top 3% GPA of 7000+ graduates) University of Illinois at Urbana-Champaign, *May 2019*
- Honorable Mention (top 20% of all participants) The Mathematical Contest in Modeling, *Apr 2017*
- Outstanding Poster (top 15% of 300+ poster presentations) Joint Mathematics Meetings, *Jan 2017*

## SKILLS

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### Programming Languages

- Java, Python, Kotlin, C, C++, HTML, CSS, JavaScript, R, Haskell, Ocaml, SQL

### Development Tools

- IntelliJ IDEA, Git, Vim, Android Studio, Unix