

DAVID (YUNXIN) ZHANG

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

EDUCATION

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

Laboratory for Parallel Numerical Algorithms

May 2019 - Present

Research Assistant

- An ongoing research on **Scientific Computing** mentored by Prof. Edgar Solomonik from UIUC.
- Designed, implemented, and benchmarked several **parallel algebraic graph algorithms** for connectivity.
- Outperformed previous work, Shiloach-Vishkin algorithm, by more than **20%** on Stampede2 Supercomputer.

Verizon Media (Yahoo)

May 2018 - Aug 2018

Data Engineer Intern

- Worked in **Data Highway** team that facilitates big data transportation in the scale of two petabytes per day.
- Designed and programmed a web service that reports event counts and data loss with **Jetty** and **Redis**.
- Iteratively tested and deployed the web service to multiple hosts across Verizon with **Chef** automation.
- The service was capable of tracking **2000+ events per second** and was ready for use **in production**.

EnterpriseWorks — Research Park

Apr 2017 - Oct 2017

Web Developer

- Maintained **Salesforce** database, and constructed web applications with **Visualforce** and **Apex**.
- Developed and deployed over 10 websites for startup companies with **Bootstrap**, **jQuery**, and **D3.js**.
- Collaborated with designers and clients, **quickly prototyped** websites, and received great feedbacks.

PROJECTS

Pedway Navigation

Feb 2019 - May 2019

- Built a Chicago navigation **Android app** that specifically takes the underground walkway, Pedway, in routes.
- Joined as the backend lead and decided the backend tech stack, **Express Server**, **MongoDB**, and **Jest**.
- Designed, developed, and tested **RESTful APIs** in **Agile** method with iteration meetings and CI/CD.

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.
- Achieved close **accuracy for 5-12 day forecasts** compared to professional forecast providers online.

HONORS

- Honorable Mention (top 20% of all participants) The Mathematical Contest in Modeling, *Apr 2017*
- Outstanding Poster for (top 15% of 300+ poster presentations) Joint Mathematics Meetings, *Jan 2017*

SKILLS

Programming Languages

- Java, Python, Kotlin, C, C++, JavaScript, Haskell, Ocaml, SQL

Development Tools

- IntelliJ IDEA and JetBrains IDEs, Git, Vim, Android Studio, Unix