

DAVID (YUNXIN) ZHANG

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EDUCATION

Cornell University

Aug 2019 - May 2020

- Master of Engineering in Computer Science

GPA: 3.94

University of Illinois at Urbana-Champaign

Aug 2015 - May 2019

- Bachelor of Science in Mathematics and Computer Science

GPA: 4.0

SKILLS

Programming Languages

- Java, Python, C/C++, Kotlin, HTML, CSS, JavaScript, Go, Haskell, SQL

Development Tools

- Git, CI/CD, Vim, Unix, Jupyter Notebook, JetBrains IDE (CLion, IntelliJ), AWS (EC2, S3)

PROFESSIONAL EXPERIENCE

Citadel | Citadel Securities

Aug 2020 - Present

Software Engineer

- Completed a rigorous two-month academic training in statistics, Python and C++ programming, and finance.
- First rotation in Enterprise Data Ingestion team that develops data pipeline infrastructure and ETL tools providing reference data for the entire firm (Citadel and Citadel Securities).
Technologies: Python, Perl, Airflow, K8s, SQL Server, S3
- Final placement at Fixed Income Market Making team.

Verizon Media (Yahoo)

May 2018 - Aug 2018

Data Engineer Intern

- Interned at **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 **over 2000 events per second** and was ready for use **in production**.

EnterpriseWorks

May 2017 - Aug 2017

Web Developer Intern

- 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

Algebraic Graph Algorithms

May 2019 - Aug 2019

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

Weather Forecast Analysis

Sep 2016 - May 2017

- Collected 10GB of weather data automatically in **Python** and **Shell Script** with **Cron** for 4000 locations.
- Built **Persistence**, **Climatology**, **Multiple Linear Regression**, **Time Series ARMA(3, 3)** models in **R**.
- 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 (top 15% of over 300 poster presentations) Joint Mathematics Meetings, Jan 2017