

Jiayuan Hong

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🌐 <https://github.com/Einsgates>

☎ 217-200-0555

EDUCATION

University of Illinois, Urbana Champaign

Bachelor of Science in Mathematics+Computer Science GPA: 3.94/4.00

Urbana, IL

Aug 2021 - Dec 2023

Xidian University (Transferred Out)

Computer Science GPA: 3.70/4.00

Shaanxi, China

Aug 2019 - June 2021

INTERNSHIP

Zhejiang Uniview Technologies

Backend Developer Intern

Xian, China

January 2021 - March 2021

- Implement Uniview Cloud Service to provide service for professional IP **video surveillance** devices.
- Involve the comprehensive application of **SpringCloud**, Eureka, Kafka, Redis, Linux, distributed system.
- Assist Uniview Cloud Service in maintaining company's **database** using **MySQL** Programming Language.

COURSES PROJECTS

WechAt: A Chatting and Selling Products App

May 2022 - Now

<https://github.com/Einsgates/WechAt>

- Provide a Platform for people to chat with each other including private session and public session as well as sell products.
- Use **Google Cloud** for MySQL and **Node.js** to implement the Backend functions. Advanced queries like Transaction and Procedure are also used to implement some complicated functions
- Use **Vue.js** to implement Frontend, including pages like message, login system, account, product, post, and chat session.

Risk Website Identification System

May 2020 - Oct 2020

<https://github.com/Einsgates/Web-Analysis>

- Use **Client-side Honeypot System** to assist detection, allowing webpage code to run in a sandbox-like environment, and the dynamically executed JS code.
- Use **Prefetch-based Detection Methods** for phishing websites, using the difference between the topological structure of phishing websites and normal websites for identification
- Use **SVM** to construct a Classifier to realize station inspection

Monte Carlo simulation to estimate percolation threshold

May 2021 - July 2021

<https://github.com/Einsgates/Percolation>

- Individually implemented a Percolation System and find the threshold of the value when the system suddenly becomes percolated.
- Use Monte Carlo Simulation and **Union-Find** to calculate the connectivity of the grid.
- Perform a series of computational experiments and provides a **95% Confidence Interval** for the percolation threshold.

SKILLS

- Focus: Software Development, Web Development, Full-stack development
- Technical Skills: Java, Python, C/C++, Vue, React, MySQL, MongoDB, Go
- Courses: Database System, Web Programming, Algorithms & Models of Computation, System Programming, Numerical Analysis, Data Structure, Real Analysis, Complex Variables