

Jiayuan Hong

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🌐 <https://github.com/Einsgates>

☎ 217-200-0555

EDUCATION

University of Illinois, Urbana Champaign
Mathematics+Computer Science GPA: 3.94/4.0

Urbana, IL
Aug 2021 - May 2023

Xidian University (Transferred Out)
Computer Science GPA: 3.70/4.00

Shaanxi, China
Aug 2019 - June 2021

AWARDS

Dean's List of LAS College Jan 2022

Second Prize for National English Competition for College Students Feb 2021

First Prize Scholarship of Xidian University Sep 2020

Third Prize in Mathematical Contest in Modeling April 2020

Second Prize for Chinese Mathematical Olympics Sep 2017

INTERNSHIP

Zhejiang Uniview Technologies

Xian, China

Java Programmer Intern

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.
- Use **OpenCV** and other machine learning algorithms to improve the accuracy of **face recognition**.

COURSES PROJECTS

Read Map and Compute Shortest Paths Between Pairs of Points March 2021 - May 2021

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

- Individually implement the classic **Dijkstra's Shortest Path** algorithm and optimize it for maps.
- Optimize Dijkstra's algorithm make it process thousands of shortest path queries for a given map via **A* Algorithm**
- Reduce the amount of work involved per shortest path computation, without using excessive space using a faster **Priority Queue**.

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.
- Using **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

SKILLS

- Focus: Software Development, Machine Learning, Computer Programming
- Programming Languages: C/C++, Java, Python, PyTorch, SQL, Matlab
- Courses: **Machine Learning**, Introduction to Algorithms & Models of Computation, System Programming, Numerical Methods, Data Structure, Computer Architecture