Richard **Ma**

COMPUTER SCIENCE STUDENT

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Experience

Capital One   *McLean, Virginia*
SOFTWARE ENGINEER INTERN   *Jun. 2021 - Aug. 2021*

- Worked in Meisters Anti-Money Laundering Team with two other interns
- Tested models by writing functional and unit tests in python to meet 80% test coverage
- Designed dataframes using Jupyter Notebook and verified the correctness of each function using mocker
- Formatted and linted existing codebase using pylinter to meet company standards
- Attended daily meetings and participated in a agile work environment

Synchem Inc.   *Elk Grove Village, IL*
WEBMASTER   *May. 2018 - Aug. 2018*

- Configured DNS to help deploy new company website to DigitalOcean
- Improved company search engine visibility by installing SSL Certificate and Google Ads
- Added new company products to database in order to display for sale
- Improved website look using HTML/CSS
- Created new employee accounts using Active Directory, troubleshooted networking problems

Education

University of Illinois, Urbana Champaign   *Champaign, IL*
B.S. IN COMPUTER SCIENCE   *Aug 2020 - Present*

- Planning to graduate by May of 2023
- GPA: 3.9 / 4.0
- Notable coursework: CS 374 (Algorithms), CS 225 (Data Structures), ECE 408 (Applied Parallel Programming), MATH 415 (Linear Algebra)
- Extracurriculars: ICPC (competitive programming), SigPWNY (cybersecurity club), tennis

Projects

Rank to PP

HTTPS://REIGENATK.GITHUB.IO/RANKTOPPV1/

- A fullstack MERN application (MongoDB, Express, React, Node) that tracks global rankings in a free rhythm game called 'osu!'
- Express backend exposes endpoints which are called to query info
- Uses Axios to make calls to an official game API daily
- Data stored in a MongoDB database, and displayed on a frontend using ChartJS

IMDB Dataset Analysis

HTTPS://GITHUB.COM/REIGENATK/IMDB-DATASET

- An analysis of the public data available on IMDB.com, a movie ranking website, in C++
- Constructed a large graph with millions of data points and ran floodfill, SCC, and closest path algorithms to learn more about the data

Reaction Wars

HTTPS://REACTIONWARSV1.HEROKUAPP.COM/

- A real-time, 1v1 reaction time game written in Javascript
- Leveraged JQuery and the Socket.IO library to enable real time communication between two clients
- Implemented functionality for multiple rooms to be playing at once

Skills

Proficient, C++

Familiar, Python, Javascript- ReactJS, NodeJS, MongoDB, HTML/CSS, C#

Learning, Java, Bash, C, x86 Assembly, CUDA