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Education

Purdue University West Lafayette, Indiana

BACHELOR OF SCIENCE IN COMPUTER SCIENCE, BACHELOR OF SCIENCE IN MATHEMATICS

May 2022

- Overall GPA: 3 93/4 00.
- · Relevant Mathematics Coursework: Linear Algebra, Real Analysis, Ordinary Differential Equations, Statistical Methods
- · Relevant CS Coursework: Algorithms and Data Structures, Numerical Methods, Systems Programming, Analysis of Algorithms

Skills

Programming Languages Proficient in Python, Java, and C. Familiar with C++, Bash, MATLAB, PHP, Assembly (x86_64), and SQL

Markup Languages

ŁTFX, HTML, and CSS

Miscellaneous

Linux, Drupal 7/8, Breadboarding, OpenQASM, Qiskit, and D-Wave Ocean

Work Experience

Jung Research Group

West Lafayette, Indiana

Undergraduate Researcher

January 2020 - Present

- · Implemented algorithms leveraging quantum phenomena using OpenQASM and Qiskit to efficiently solve problems in high-energy physics, chemistry, and engineering
- Performed data analysis and reduced noise from quantum computer output distributions with CERN's ROOT, a computational physics software package
- · Investigated the applicability of quantum computers to processing events from the Compact Muon Solenoid

Ivyhill Technologies

New Providence, New Jersey

February - July 2018

JUNIOR DEVELOPER • Designed a responsive website connecting student athletes to collegiate recruiters based on Drupal 7 & 8

· Created PHP extension for tighter integration with mySQL database

INTERNING SECURITY RESEARCHER

May - June 2017

- · Designed a security scoring algorithm that assesses an organization's overall security
- Presented algorithm to high school at completion of internship

Proiects

DiscoTrader

DISCORD BOT THAT ALLOWS USERS TO SEAMLESSLY RETRIEVE MARKET INFORMATION AND SUBMIT ORDERS

- Implemented in Python with the discord.py API and Alpaca's paper trading API
- · Designed, implemented, and tested multi-user portfolio support on top of basic Alpaca portfolio
- Multithreaded and supports queuing orders to submit at market open
- · Supports SQLite database of portfolios and automatically creates backup after user modification

/r/chiver

ARCHIVING APPLICATION TO AUTOMATICALLY SCRAPE, DOWNLOAD, AND COLLECT COMMENTS FROM REDDIT

- Written in Python using the PRAW API
- · Supports full archival of a target Reddit account, with options for third party archival and local copy generation
- Frontend dashboard built with Flask for user-friendly operation

Involvement

Purdue Disability Resource Center Peer Mentor Program

West Lafayette, Indiana

SENIOR MENTOR & POD LEADER

June 2020 - Present

- · Interviewed and trained new mentors on how to be an effective mentor
- · Developed training materials relevant to disabilities and the Disability Resource Center's objectives
- · Assisted in organizing and executing over a dozen program-wide events

August 2019 - May 2020

- · Worked individually with mentee to more effectively utilize academic, social, and clinical services offered by the university
- Met on a bi-weekly basis to check in and discuss potential access roadblocks and solutions

Honors & Awards

2020 Discovery Park Undergraduate Research Fellowship, Recipient

Computer Science Departmental Scholarship, Recipient 2020

SRC JANUARY 6, 2021