LOGAN SHERWIN

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Education

University of Chicago **Sep. 2019 – June 2023**
Joint B.S./M.S. in Computer Science, Machine Learning Specialization *Chicago, IL*
GPA: 3.82/4.00
Honors: 2021-22 Dean's List

Relevant Coursework

- Algorithms
- Computer Architecture
- Databases
- Ethics, Privacy, Fairness
- Human-Comp Interaction
- Machine Learning
- Networks
- Programming Languages

Experience

Amazon **Jun. 2022 – Sep. 2022**
Software Development Engineer Intern *Seattle, WA*
- Implemented a new core operator for an internal service for customers to access AWS SageMaker inference endpoints
- Handled customer requests passing through the platform by building and executing requests from our service to the AWS SageMaker endpoint through a non-blocking IO system written in Java
- Processed response data from the endpoint and converted it to the platform's query language as output
- Allowed customers to implement calls to SageMaker models for inference in their business logic

SESCO Enterprises, LLC **Jun. 2021 – Sep. 2021**
Quantitative Developer Intern *Chicago, IL*
- Developed a simulation engine to estimate the fair values of Financial Transmission Rights, an auctioned options and obligations market for wholesale electricity
- Centered around analyzing the behavior of market participants for correlated auctions and assets
- Implemented backtesting for the model, accounting for price elasticity
- Written in Python, with extensions in Nim for optimizing the program's numerical algorithms

University of Chicago – Department of Computer Science **Mar. 2021 – Jun. 2021**
Teaching Assistant *Chicago, IL*
- Guided over 100 student's learning in an introductory computer science course by leading lab sessions and solving problems that arose in their code
- Held office hours to support students in their learning and provide feedback on their code
- Assessed student performance on graded assignments as a member of a ten-person staff team

University of Chicago – Housing & Residence Life **Sep. 2020 – Present**
Resident Assistant *Chicago, IL*
- Supported over 70 residents both mentally and emotionally through their college experience
- Helped organize events within the group to build a cohesive group of individuals
- Created a safe and open environment for students as a member of a four-person staff team

Projects

Diving Pose Estimation **Aug. 2022 – Sep. 2022**
- Implemented pose estimation using the OpenCV Python package to identify joints and compute joint angles of a diver
- Overlayed joint angles at a given video frame to show the angles at a given moment during the dive
- Wrote new sequence of frames with angle and pose overlays to disk for divers to observe after analysis

Schedule Generator **Jun. 2021 – Aug. 2021**
- Implemented an interval scheduling algorithm in Python to determine the best arrangement of employees by week
- Considered availability of workers and prioritized shift distribution based on seniority

Technical Skills

Languages: Python, Java, SQL, C, Nim, JavaScript, Standard ML, C++
Technologies/Frameworks: SciPy Stack, Git, MongoDB, AWS, PostgreSQL
Techniques: CNNs, RNNs, SVMs, Naive Bayes

Extracurriculars

Alpha Kappa Psi Business Fraternity **Jan 2022 – Present**
College Varsity Swimming and Diving Team – Captain **Oct 2019 – Present**