Joshua Athayde

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EDUCATION

University of Chicago   Chicago, IL
Bachelor of Science in Computer Science, Bachelor of Science in Mathematics   *2020 – 2024*
- GPA: 3.87/4.00
- Relevant Coursework: Honors Intro to CS I-II, Computer Systems, Honors Analysis I-III
- Honors: National Merit Scholar, National AP Scholar, SAT: 1570

EXPERIENCE

Research Assistant – HRI Lab   2020 – Present
University of Chicago   *Chicago, IL*
- Developed robot demo for Stretch Robot using ROS frameworks
- Collaborated with three other lab members to design and implement demo

Swim Instructor   2019 – 2020
Palo Alto YMCA   *Palo Alto, CA*
- Taught swimming strokes and water safety to children in group lessons
- Coordinated with other swim instructors to provide lesson plans tailored to each child's abilities across one month sessions

LEADERSHIP & ACTIVITIES

Media Analysis Project Member   2021 – Present
Institute of Politics – University of Chicago   *Chicago, IL*
- Analyzed changes in media sentiment over three years regarding China using Natural Language Process techniques
- Cleaned data from 7,000 newspaper articles using Python Data Science Libraries

Quantum & New Technology Entrepreneurship Career Launcher   2021 – Present
University of Chicago   *Chicago, IL*
- Researched applications of Quantum Computing to faster data clustering algorithms
- Wrote group paper on the methods and commercial viability of quantum data clustering

Maroon Capital Analyst – Systematic Cohort   2020 – Present
Maroon Capital – University of Chicago   *Chicago, IL*
- Collaborated with three other team members to design strategy to trade BTC using Twitter data
- Backtested trading strategy with five years of previous price data using NumPy and pandas libraries

Palo Alto Speech and Debate Camp – Lab Leader   2019-2020
Palo Alto Senior High School   *Palo Alto, CA*
- Led group of four high school students to teach speech and debate to a cohort of 15 middle schoolers
- Led largest lab that raised $8,000 for the Palo Alto Speech and Debate Team

PERSONAL PROJECTS

A Study of AP Courses Taken vs Ethnicity/School Demographics | *Excel, Python*
- Applied multiple regression to correlate offering advanced courses with the independent variable of ethnicity and the control variables in school demographics, size, and free and reduced price lunch rates
- Cleaned data about 10,000 California schools by filtering out non-high schools from the data sets using Python libraries

2048 Game | *Python, Tkinter*
- Developed a GUI version of the game 2048 using the python Tkinter library
- Implemented and optimized tree search algorithms, minimax and expectiminimax, to play the game

TECHNICAL SKILLS & INTERESTS

Languages: Python, C/C++, Java, Haskell, LaTeX
Developer Tools: Git, VS Code, Jupyter Notebook, PyCharm, IntelliJ, Eclipse, Word, Excel
Libraries: pandas, NumPy, Matplotlib, NLTK, TextBlob, ROS
Interests: Basketball, Sports Analytics, Poker