SAM ACQUAVIVA

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EDUCATION

Massachusetts Institute of Technology (MIT), Cambridge, MA
Candidate for Bachelor of Science degree in Computation and Cognition, May 2023
- Relevant coursework: Machine Learning, Algorithms, Computational Thinking and Data Science, Neuroscience
- 5.0 GPA

RELEVANT EXPERIENCE

MIT Computer Science and Artificial Intelligence Laboratory
Computational Cognitive Science Group Researcher, May 2020 – Present
- Created data collection platform and a novel bandit-algorithm to conduct a large-scale Mechanical Turk study
- Presented original dataset at the Association for the Advancement of Artificial Intelligence 2020 Conference
- Currently developing a latent language model with a group of five postdoctoral researchers that uses the dataset to solve the Abstraction and Reasoning Challenge—a currently unsolved benchmark for artificial general intelligence

St. Paul's Episcopal Church Newburyport
Head of Technology, May 2018 – August 2020
- Redesigned website, reorganized backend infrastructure, and improved security as part of a three person team
- Enabled service live-streaming and secure online donations

ACTIVITIES AND EXTRACURRICULARS

MIT Ethical Technology Initiative
Technology Co-Chair and Outreach Co-Chair, September 2020 – Present
- Created website and led recruiting efforts to promote the new club
- Currently designing the club's first project to explore dangerous sources of bias in computer vision

MIT Track and Field and Cross Country
Athlete, September 2019 – Present
- Maintained full academic rigor while training and competing twenty hours per week, year-round

MIT Class of 2023 Class Council
Vice President, September 2019 – August 2020
- Organized and carried out multiple class-wide events for hundreds of students
- Worked with other class councils to successfully negotiate a fairer grading policy in the age of COVID-19

PROJECTS

Kandula
Written in Swift and Python, uses AWS Services
- Created API and app that enables anyone to create and customize stock-trading algorithms without programming
- Hosts a plethora of trading algorithms on the cloud involving deep learning and quantitative analysis

Acquacchi Chess Engine
Written in C
- Expands alpha-beta search with heuristics and bit-level algorithms
- Evaluates over 1.5 million positions per second

SKILLS

Technologies: Python, C++, Javascript, Swift, C, PyTorch, Firebase, AWS, React
Soft skills: Creativity, communication, reliability