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EDUCATION

Massachusetts Institute of Technology	<i>Candidate for Bachelor of Science in Electrical Engineering and Computer Science</i>	Class of 2023 Cambridge, MA
	GPA: 4.6/5.0	
	Relevant Coursework: Computer Security, Software Studio, Elements of Software Construction, Interconnected Embedded Systems, Machine Learning, Algorithms, Computational Structures, Fundamentals of Programming	

EXPERIENCE

UROP—Ethereum Research	September 2022 - Present
Undergraduate Researcher for the Digital Currency Initiative, MIT Media Lab	

- Conducting MEV(Maximal Extracted Value) research on Ethereum following the successful transition to proof of stake

Goodwood Brewing	July 2022 - September 2022
Contract Developer for Goodwood Brewing in Louisville, KY	

- Developed a lightweight data management and analytics tool using the Electron Framework for the brewing lifecycle to provide an cost effective alternative to the solution provided by Ekos

River Road Asset Management	August 2020 - August 2021
Systematic Research and Development Intern in Louisville, KY	

- Developed algorithms to analyze the natural language of Earnings Calls to find correlations between portfolio companies
- Used machine learning algorithms— Random Forests and Perceptron— to build predictive models to estimate the likelihood of out performance compared to the Russel 2000 Index
- Used Python, Pandas and the Sci Kit Learn Framework

UROP—Optimizing BioPython Using a New Domain-Specific Language for Bioinformatics	January 2020 - August 2020
Undergraduate Researcher at the MIT CSAIL Lab	

- Implemented features of BioPython library in a domain-specific language called Seq for bioinformatics and computational genomics
- Implemented new builtin types for the language in an effort to increase the compiler efficiency

UROP—Development of Machine Learning Tools for Ocean Science	May 2019 - August 2019
Undergraduate Researcher at MIT Sea Grant	

- Developed software written in Python on a team of two to retrieve ocean data from NASA PODAAC Servers and display data in a Graphical User Interface
- Tested and Developed a basic web UI using HTML5, CSS3, and the Django framework to display this information retrieved from NASA

EXTRACURRICULAR ACTIVITIES

Varsity Football - Massachusetts Institute of Technology	September 2018 - present
• Team Member; Running Back	

Delta Kappa Epsilon Fraternity - Massachusetts Institute of Technology	September 2018 - present
• Member, Assistant Social Chair	

SKILLS

Python, Solidity, Java, JavaScript, Git, Go