

Hunter M Hasenfus

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SKILLS

Computational Thinking Machine Learning, Reinforcement Learning, Math Modelling/Simulation
Programming C, C++, Python, x86, Mathematica, Haskell, Typescript, and Rust
Mathematics Calculus, Differential Equations, Linear Algebra, Probability, Statistics, Real Analysis, Topology, Measure Theory, and interests in Category Theory
Soft Public Speaking, Scientific Journalism, Blogging

EDUCATION

University of Massachusetts: Lowell, 2021 - 2024 (GPA: 3.85/4.0)
– B.S. Mathematics, B.S. Computer Science
– Math club, Robotics club, Jiu Jitsu club

WORK EXPERIENCE

Project Lead, Tick3tTree Sep 2023 - present
– Developed Anchor smart contracts for the Solana block chain, and integrated Typescript APIs and rust backend into our micro-services architecture with AWS.

Research Assistant, UML Pearl Lab Aug 2023 - Apr 2024
– Trained and analyzed open-source multi-agent reinforcement learning algorithms focused on persistent autonomy in robotics with Pytorch and Tensorflow.

Machine Learning Engineer, DoD NSIN X-Force Jun 2023 - Aug 2023
– Assigned to Georgia Tech Research Institute: CIPHER Division as part of Department of Defense - National Security Innovation Network's X-Force Program. [Deep learning, Graph neural networks]

Machine Learning intern, WAITT [NLP, Data analysis, python, pytorch] Dec 2022 - Feb 2023
– Devised data pipelines, and implemented research techniques with Pytorch and AWS.

Mathematics tutor, UML Nov 2022 - Apr 2023

PROJECTS

Honors Project, Dr. Ahmadzadeh Aug 2023 - Apr 2024
– Collaborate with PhD student, train and test multi-agent reinforcement learning models. Paper accepted into CDC apart of IEEE.

Mathematics Senior Seminar, Dr. Beke Aug 2023- Dec 2023
– Developed understanding of combinatorial, categorical, computational perspectives of homology; wrote paper and presented project.

Software Project, Schneider Electric Nov 2022 - Apr 2023
– Researched cryptographic algorithms, analyzed secure communication on Secure Element with Raspberry Pi, and tested methods on the company's control system units.

Honors Fellowship, Dr. Wang Aug 2022 - Apr 2023
– Utilized mixture models in junction with supervised learning models for predictive modeling of mental health.

LEADERSHIP

Residential Advisor, University of Massachusetts: Lowell Aug 2023 - present
President, Math Club Sep 2022 - Apr 2023
Squad Leader, Massachusetts Maritime Academy Nov 2020 - Apr 2021

Last updated: August 19, 2024