KALEB HUNEAU

Third Year Mathematics and Computer Engineering at Queen's University

@ kalebhuneau@gmail.com   📞 (807) 630-9159   in Kaleb Huneau   ⌂ Kaleb-Huneau

EXPERIENCE

Teaching Assistant for Engineering Design

Queen's University

📅 September 2022 - Present

- Helped students improve technical writing and understand the design process by assisting in tutorials, providing feedback on deliverables, and answering questions

NSERC Machine Learning Research

Queen's University

📅 May 2022 – August 2022

- Derived Statistical Mechanics and Nosé Hoover dynamics for neural networks
- Subclassed Keras models to implement thermostated gradient descent
- Reduced computing time from days to under one hour by leveraging a mostly idle compute cluster

Physics Research Assistant

Queen's University

📅 July 2021 – August 2021

- Software development with Python, Numpy, Signac, Matplotlib, and Custom Libraries
- Computed statistical mechanics for naval ship architecture with Tensornetworks

Residence Don

Queen's University

📅 September 2020 – May 2022

- Completed overnight on-call rotations, building rounds, and helped with emergencies
- Planned programs and offered support to first year students

PROJECTS

QMIND Project Manager

Pretraining in Reinforcement Learning

📅 May 2022 – Present

- Worked with director to create a timeline and interview club applicants
- Onboarded the team by running coding workshops and working through reinforcement learning examples

QMIND Team Lead

Arrhythmia Detection and Classification

📅 September 2021 – May 2022

- Researched methods for preprocessing and feature extraction on time series data, constructed models to classify heartbeats
- Helped team members by answering questions, and discussing ideas
- Achieved a classification accuracy of 95%

EDUCATION

Mathematics and Computer Engineering

Queen's University

📅 September 2019 – April 2024

French Immersion

DELF B2 Certified

📅 2019

SKILLS

Technical Writing   Communication   Presenting   Critical Thinking   Process Optimization   Data Structures   Algorithms   Software Development   C, C++, Python, Java, KNIME(SAS)   Tensorflow, Keras, OpenAI

COURSEWORK

- Engineering Design and Communication
- Economics and Business Practices
- Probability Theory
- Data Analytics and Machine Learning
- Data Structures and Algorithms
- Software Engineering
- Advanced Mathematics

EXTRA

- Medical Innovation Hackathon
- University Chess Nationals
- Chess Club President (Hammarskjöld)
- Math, Physics, and CS Tutor

REFERENCES

Greg Van Anders
- Research Supervisor
- Email: gva@queensu.ca

Wesley Forget
- Residence Life Coordinator
- Phone: (613) 305-2875