

Mercy Doan

mercy.doan@queensu.ca | [linkedin.com/in/merd/](https://www.linkedin.com/in/merd/) | github.com/sunyshore

Education

Queen's University, Bachelor of Computing (Honors)

Sep. 2020 – Apr. 2024

Specialization in Computing/Mathematics, focus in Data Analytics/Statistics (2x Dean's Honor List)

Kingston, ON

Areas of Study: Data Analysis, AI/ML/Information Theory, Software Security, Data Structures, Algorithms

Technical Skills

Languages: Java, Python, MATLAB, R, HTML/CSS, Bash, C, JavaScript, Haskell

Frameworks/Technologies: React, Node.js, Bootstrap, WordPress, Git/GitHub, Figma

Libraries: Pandas, NumPy, HuggingFace, SciKitLearn, TensorFlow, Keras, PyTorch

Experience

AI Software Developer

May 2023

Distributive

Kingston, ON

- Validated computer vision models uploaded to the Overwatch website with React and Node so users can run their own models on the Distributive Compute Protocol
- Implemented functionality for running one-time secure distributed inference through the frontend by authenticating users with Supabase routes

Cybersecurity Researcher

May 2022 – Sep. 2022

Google ExploreCSR

Kingston, ON

- Analyzed and applied research papers on autonomous vehicle security, software development life cycles, vulnerability detection, and machine learning techniques used in cybersecurity
- Proposed new ways to improve an autonomous vehicle software security and development method by using regression and deep learning to prioritize vulnerability metrics

Computing and Math Teaching Assistant

Sep. 2021 – Present

Queen's School of Computing, Queen's Mathematics and Statistics Department

Kingston, ON

- Provided office hours and feedback on Python and Java assignments for 50+ undergraduate students on a weekly basis, and debugged code with concepts up to recursion, tkinter, machine learning principles, OOP, etc.
- Discussed interesting math puzzles weekly with first year students to foster an engaging and creative environment

Experience

NLP Director of Design

May 2022 – Present

QMIND (Queen's University Artificial Intelligence Design Team)

Kingston, ON

- Guided 5 project managers to build NLP projects through leadership and reflection workshops
- Educated students on using GitHub, HuggingFace libraries, and a variety of NLP techniques (Supervised/Unsupervised Regression/Classification, statistical models, Ensemble methods, Deep Learning, LSTMs, Transformers)

Vice-President of Operations

May 2021 – Present

COMPSA (Queen's Computing Students' Association)

Kingston, ON

- Led a team of 50+ students to support and enhance the undergraduate Computing student body's experience in Academics, Equity, Events, Marketing, Professional Development, Year Representation, and IT Support
- Created new initiatives to boost student engagement, develop an internal foundation of long term goals/plans, and advocate for student issues (understaffing, academic assistance, equitable policies, etc.)
- As UI/UX Team Lead, communicated with stakeholders, designers, and developers to build a new full-stack application for 1200+ students with university servers, React, Next.js, Figma, and using CI/CD principles

Co-President

Mar. 2022 – Present

QLANG (Queen's Languages and Linguistics Club)

Kingston, ON

- Founded the first Languages and Linguistics Club at Queen's University and curated educational material
- Led 4 directors to organize weekly workshops for 60+ members, covering 35+ major European/Asian languages