

# Mercy Doan

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## Education

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### Queen's University, Bachelor of Computing (Honors)

Kingston, ON

*Specialization in Computing and Math, focus in Data Analysis and Statistics*

Sep. 2020 – Apr. 2024

**Areas of Study:** Data Analysis, AI, Machine Learning, NLP, Software Security, Data Structures, Algorithms

## Experience

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### NLP Project Manager

May 2022 – Present

QMIND (Queen's Machine Intelligence and Neuroevolution Design)

Kingston, ON

- Led a team of 3 to build a ML model that analyzes code to detect security vulnerabilities
- Created workshops on AI basics, GitHub, research methods, and Transformers for NLP via HuggingFace

### Vice-President of Operations

May 2021 – Present

COMPSA (Queen's Computing Students' Association)

Kingston, ON

- Led a team of 50+ students in teams of Academics, Equity, Events, Marketing, and Professional Development
- As UI/UX Team Lead, communicated with stakeholders to develop a new full-stack application for 1200+ students using AWS, React, Next.js, and Figma

### ExploreCSR Research Mentee

May 2022 – Present

Google

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 techniques to prioritize vulnerability metrics

### 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
- Led a team of 4 directors to organize events and promote a like-minded by leading a team of 4 directors
- Communicated with professors and clubs to educate 60+ members on intersections of language and other topics

### Computing and Math Teaching Assistant

Sep. 2021 – Present

Queen's School of Computing

Kingston, ON

- Provided office hours and feedback on Python and Java assignments for 50+ undergraduate students on a weekly basis
- Debugged code with concepts up to recursion, NumPy, tkinter, machine learning principles, etc.

## Projects

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### Data Analytics Projects | MATLAB

Jan. 2022 – Apr. 2022

- Wrote reports on 5 data analytics projects, such as predicting commodity costs and clustering fruit cultivars
- Implemented data analysis methods such as PCA, LDA, dimensionality reduction, and artificial neurons
- Used tests to check efficiency of analyses, such as AUC/ROC curves

### Beacon | Figma, Bootstrap, Javascript, Google Maps API

Nov. 2020

- Built a website with a team of four that helps users find mental health support and resources
- Created the frontend to display nearby mental health services based on a mental health quiz result and the user's location

## Technical Skills

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

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

**Libraries:** Pandas, NumPy, Matplotlib, SciKitLearn, TensorFlow