

SKILLS

- **Languages:** Python, Java, JavaScript, C, R, HTML/CSS, React
- **Libraries/Frameworks:** NumPy, Pandas, Matplotlib, Flask
- **Database:** SQL, Firebase
- **Version Control/Testing:** Git, JUnit, Mockito
- **Tools:** R Studio, Android Studio, Jira, Eclipse, Jupyter Notebook, Notion, L^AT_EX

EDUCATION

Honors Bachelor of Science

Sep 2022 - May 2026 (expected)

University of Toronto

- **Specialization** - *Machine Learning/Data Science*, **Major** - *Math*, **Minor** - *Economic Studies*
- **Relevant Courses:** Data Science, Database and Web Applications, Software Design, Object-oriented Programming, Probability Theory
- **Activities:** Data Science and Statistics Society, Campus hockey player

WORK EXPERIENCE

Data Science Research Assistant | *IAI Lab, Toronto, CA*

Jun 2023 - Sep 2023

- **Developed** innovative solutions to various research initiatives by leveraging my skills in data analysis, data visualization, hypothesis testing, and regression modeling.
- Actively **collaborated** with a multidisciplinary team aimed to extract insights, uncover patterns, and build predictive models from diverse datasets, utilizing a combination of **Python** and **R** programming.

Math Tutor | *Literacy Initiative, Online*

Nov 2020 - Jan 2021

- Held meetings at least twice a week over a **3 month period**, communicating and checking in on students' progress and their personal foresight on their academic career.
- Subjects: algebra, geometry, probability, logic & reasoning, problem solving
- **Increased** the grades of every student by up to **15%** upon a semester's worth of tutoring/teaching.

PROJECTS

ShopEaze

Java, Firebase, Android Studio, Figma, Jira, Git

- **Designed, developed, and tested** an Android native mobile e-commerce application built with Java as a **scrum master** in a scrum environment.
- **Orchestrated** the front-end and back-end for shop owners' side product management which communicates with a Firebase Realtime Database and also designed the UI/UX for the general app framework.

Housing Price Predictor

Python, NumPy, Pandas, Matplotlib, Jupyter Notebook

- **Developed** and implemented machine learning models, including linear regression and random forest regression, to predict housing prices, achieving a predictive accuracy of approximately **81.44%**.
- **Performed** data preprocessing, exploratory analysis, feature engineering, and hyperparameter tuning to optimize model performance, demonstrating proficiency in Python libraries.

Handwritten Digit Predictor

Python, TensorFlow, NumPy, Matplotlib, Keras

- **Developed, trained, and tested** a model using neural networks in Python to predict the number in which was inscribed on a 28x28 pixel PNG file.
- The training and testing of the model resulted in precisely predicting any given number in PNG format with an accuracy rate of **92%**, a **16%** improvement from an online scanner with a **76%** accuracy rate.

Personal Portfolio Website

HTML, CSS, JavaScript, Firebase

- **Fully designed and developed** my personal portfolio website which serves to display my personal projects, skills, and interests in a visually engaging fashion.
- Use of JavaScript and Firebase Realtime Database to maintain a server-side connection with the contact form.

TaskTango

Python, NumPy, Pandas, Matplotlib, Jupyter Notebook

- Developed a blogging platform using Django, allowing users to create, edit, and publish their blog posts.
- Implemented rich text editing and comment functionality for user engagement.