

## SKILLS

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- **Languages:** Python, Java, JavaScript, TypeScript, C, R, HTML/CSS
- **Libraries/Frameworks:** NumPy, Pandas, Matplotlib, Flask, React.js, Next.js, TensorFlow, Scikit-learn
- **Database:** SQL, Firebase, CRUD, REST API, MongoDB
- **Version Control/Testing:** Git, JUnit, Mockito
- **Tools:** R Studio, Android Studio, Jira, Eclipse, Jupyter Notebook, Notion, L<sup>A</sup>T<sub>E</sub>X, Scrum

## EDUCATION

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### Honors Bachelor of Science - Statistics Co-op

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 Apps, Software Design, OOP, Probability Theory
- **Activities:** Data Science and Statistics Society, Campus hockey player, Google Developer Student Club

## WORK EXPERIENCE

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

Jun 2023 - Present

- **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

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### 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.

### Personal Portfolio

TypeScript, Next.js, React.js, Tailwind CSS, Framer Motion, Git

- **Fully designed and developed** a cutting-edge personal portfolio website using Next.js 13, featuring an efficient App Router, Server Actions, Client & Server Components for enhanced performance, along with TypeScript support, and a responsive design.
- Includes advanced animations powered by Framer Motion, React.Email functionality, custom React hooks, and a sleek, modern UI with both light and dark modes to showcase my work, skills, and interests effectively.

### 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.

### UTSC Hockey

TypeScript, Next.js, React.js, Python, GraphQL, Jira, Git

- **Currently** engineering a website for the UTSC Ice Hockey team to increase visibility and reachability for the intramural sport to anyone who wishes to join.
- Website is under construction.

## 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.

## Bike Theft Report

R, RStudio, Git

- **Analyzed and produced** an informative public report on bike safety concerns in Toronto and its surrounding areas with regards to the precedence of stolen bikes in certain areas.
- The analysis produced statistics based off of an open-source dataset and determined that bike thefts have been increasing by **2.3%** each year for the past 7 years (2014-2021), thus providing the public with notice of a trend in such thefts.