cc.yan@mail.utoronto.ca
(905)-923-2350
Toronto, ON

Chris Yan

LinkedIn: chris-yan
Github: chr1syanner
Website: Meet-Chris

SKILLS

- **Languages**: Python, Java, JavaScript, TypeScript, C, R, HTML/CSS
- **Libraries/Frameworks**: NumPy, Pandas, Matplotlib, Flask, React.js, Next.js, Framer Motion
- **Database**: SQL, Firebase
- **Version Control/Testing**: Git, JUnit, Mockito
- **Tools**: R Studio, Android Studio, Jira, Eclipse, Jupyter Notebook, Notion, LaTeX, Xcode

EDUCATION

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 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.

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.

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, Git

- **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.

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.