KIEN NGUYEN

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EDUCATION

University of Toronto   Mississauga, ON
H.B.S. in Applied Statistics, Computer Science and Mathematics Minors   *Sep. 2021 – May 2026*
- Relevant courses: Machine Learning, Method of Data Analysis, Computational Statistics, Experimental Design, Data Structure, Sampling Survey, Remote Sensing.

EXPERIENCE

UTM Student Union   Nov. 2024 – Mar. 2025
Software Developer & Poll Clerk   *Mississauga, ON*
- Developed an automated ballot system in Python using ReportLab and PyPDF2 to streamline ballot creation and ensure compliance with student union policies.
- Collaborated with the C.R.O. to uphold UTMSU's policies on confidential voting data, ensuring fair and transparent elections.

Teacher On Wheels   May 2023 – Dec. 2024
Mathematics & Programming Tutor   *Vancouver, BC*
- Delivered 200+ hours of one-on-one tutoring to enhance course comprehension.
- Guided students through assignments, identified skill gaps, and provided targeted feedback.
- Reported session progress to the director and maintained communication with parents.

Sky Fitness Yoga   May 2023 – Aug. 2023
Software Developer — Internship   *Hanoi, VN*
- Developed a Python automation tool using Pandas to streamline payroll processing for 30+ employees, reducing manual effort and saving over 70M VND annually.
- Built ETL pipelines for timekeeping data from Excel, improve report accuracy by 40%.
- Worked with finance managers to align calculations with policy and ensure accounting compliance.

PROJECTS

Gender-Stratified Effects of Cannabis Consumption Methods on IQ Test   Jan. 2025 – Apr. 2025
STA305H5 Experimental Design   *Mississauga, ON*
- Designed a repeated-measure study using "The Island" virtual population.
- Applied repeated two-way ANOVA and tested model assumptions (control, blocking, replication, randomization).

Factors Influencing Student Extracurricular Participation   Oct. 2024 – Dec. 2024
STA304H5 Surveys, Sampling and Observational Data   *Mississauga, ON*
- Led survey creation, sampling, data cleaning, and visualization in R.
- Applied Two-Sample Proportion Tests, Chi-Square Test of Independence, and Logistic Regression.

IMDB Movie Revenue Prediction: A Multiple Regression Approach   Oct. 2024 – Dec. 2024
STA302H1 Methods of Data Analysis I   *Toronto, ON*
- Used R to model revenue based on genre, ratings, release year, Metascore, and budget.
- Performed Box-Cox transformation, collinearity checks, residual diagnostics (Cook's Distance), and hypothesis testing.

SKILLS

Programming Languages: Python, R, Java
Technical Skills: Machine Learning, Predictive Modeling, Experimental Design, Video Editing
Developer Tools: RStudio, Cursor, Git, GitHub, VS Code, PyCharm, DaVinci Resolve
Libraries: NumPy, Pandas, Matplotlib, Scikit-Learn