

# Ben Nguyen

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## EDUCATION

**University of Waterloo - Bachelor of Mathematics in Physics and Computing** Waterloo, ON  
*Co-op, President's Scholarship of Distinction, Member of WARG, UW Data Science Club* Sept. 2024 – May 2029

## EXPERIENCE

**Software Developer** Sept. 2025 – Present  
*Waterloo Aerial Robotics Group (WARG)* Remote

- Maintained front-end applications for drones, enabling real-time visualization of flight status and system data.
- Collaborate in a cross-disciplinary team of software, electrical, and mechanical engineers using Git workflows.
- Contribute to autonomous system development, reinforcing applied machine learning and systems thinking.

**Project Team Member, Data-Driven Solutions for Global Challenges** May 2025 – August 2025  
*Waterloo Experience (WE) Accelerate* Remote

- Cleaned and analyzed 150+ datasets to extract pricing and market intelligence insights.
- Built analytical dashboards in Power BI, delivering actionable insights within tight deadlines.
- Synthesized findings into structured reports to support data-driven decision-making and experimentation.

**Telephone Survey Interviewer** Sept. 2025 - Present  
*University of Waterloo Statistical Consulting and Survey Research Unit* Waterloo, ON

- Collected high-quality data using structured survey protocols for statistical research studies.
- Tested and validated surveys before deployment, improving data integrity and experimental design.
- Communicated complex questions clearly to diverse participants, strengthening collaboration skills.

**E-commerce Analyst (Independent)** April 2021 – Present  
*eBay* Mississauga, ON

- Conducted market trend analysis to optimize over 300 listings, resulting in over \$50,000 in revenue.
- Reduced shipping costs by 50% through process optimization and supplier negotiations.
- Negotiated prices with several clients, showing strong customer service and communication skills.

## PROJECTS

**Lumped-Parameter Heart Model of Severe Aortic Stenosis** | *Python, NumPy, Matplotlib*

- Developed a model to simulate aortic valve dynamics under healthy and severe aortic stenosis states.
- Implemented RK4 and Improved Euler methods to integrate the model and compare stability and accuracy.

**Breast Cancer Classification using Scikit-Learn** | *Python, Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn*

- Implemented K-nearest neighbors, support vector machine, and random forests to compare model performance.
- Achieved 98% accuracy and optimized hyper-parameters using GridSearchCV.

**Harmony Meadows Alpaca Competitor Pricing Analysis Dashboard** | *Word, Excel, Power BI*

- Developed a dashboard using Power BI that compares product pricing with competitor prices.
- Conducted product pricing with 5 competitors and added marketing suggestions for help with implementation.

**Personal Website** | *Git, HTML5, CSS3, JavaScript*

- Developed a responsive personal portfolio website using HTML5, CSS3, and JavaScript.
- Deployed using GitHub Pages, showcasing technical projects and contact information for networking.

## TECHNICAL SKILLS

**Microsoft Office:** Word, Excel, PowerPoint, Power BI

**Languages:** Python, Java, C, JavaScript, HTML, CSS

**Libraries:** NumPy, Pandas, Scikit-Learn, Matplotlib, TensorFlow, PyTorch

**Developer Tools:** Git, Docker, Bash, Visual Studio Code, Linux, LaTeX, Jupyter Notebook, Voxco

**Certifications:** Machine Learning by Stanford University & DeepLearning.AI on Coursera. Earned on July 1, 2025

**Relevant Coursework:** Linear Algebra, Probability, Statistics, Computational Mathematics, Algorithms