

# 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

<b>Software Developer</b> <i>Waterloo Aerial Robotics Group (WARG)</i>	Sept. 2025 – Present
<ul style="list-style-type: none"><li>Maintained front-end applications for drones, enabling real-time visualization of flight status and system data.</li><li>Collaborate in a cross-disciplinary team of software, electrical, and mechanical engineers using Git workflows.</li><li>Contribute to autonomous system development, reinforcing applied machine learning and systems thinking.</li></ul>	<i>Remote</i>
<b>Project Team Member, Data-Driven Solutions for Global Challenges</b> <i>Waterloo Experience (WE) Accelerate</i>	May 2025 – August 2025
<ul style="list-style-type: none"><li>Cleaned and analyzed 150+ datasets to extract pricing and market intelligence insights.</li><li>Built analytical dashboards in Power BI, delivering actionable insights within tight deadlines.</li><li>Synthesized findings into structured reports to support data-driven decision-making and experimentation.</li></ul>	<i>Remote</i>
<b>Telephone Survey Interviewer</b> <i>University of Waterloo Statistical Consulting and Survey Research Unit</i>	Sept. 2025 - Present
<ul style="list-style-type: none"><li>Collected high-quality data using structured survey protocols for statistical research studies.</li><li>Tested and validated surveys before deployment, improving data integrity and experimental design.</li><li>Communicated complex questions clearly to diverse participants, strengthening collaboration skills.</li></ul>	<i>Waterloo, ON</i>
<b>E-commerce Analyst (Independent)</b> <i>eBay</i>	April 2021 – Present
<ul style="list-style-type: none"><li>Conducted market trend analysis to optimize over 300 listings, resulting in over \$50,000 in revenue.</li><li>Reduced shipping costs by 50% through process optimization and supplier negotiations.</li><li>Negotiated prices with several clients, showing strong customer service and communication skills.</li></ul>	<i>Mississauga, ON</i>

## PROJECTS

<b>Lumped-Parameter Heart Model of Severe Aortic Stenosis</b>   <i>Python, NumPy, Matplotlib</i>	<ul style="list-style-type: none"><li>Developed a model to simulate aortic valve dynamics under healthy and severe aortic stenosis states.</li><li>Implemented RK4 and Improved Euler methods to integrate the model and compare stability and accuracy.</li></ul>
<b>Breast Cancer Classification using Scikit-Learn</b>   <i>Python, Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn</i>	<ul style="list-style-type: none"><li>Implemented K-nearest neighbors, support vector machine, and random forests to compare model performance.</li><li>Achieved 98% accuracy and optimized hyper-parameters using GridSearchCV.</li></ul>
<b>Harmony Meadows Alpaca Competitor Pricing Analysis Dashboard</b>   <i>Word, Excel, Power BI</i>	<ul style="list-style-type: none"><li>Developed a dashboard using Power BI that compares product pricing with competitor prices.</li><li>Conducted product pricing with 5 competitors and added marketing suggestions for help with implementation.</li></ul>
<b>Personal Website</b>   <i>Git, HTML5, CSS3, JavaScript</i>	<ul style="list-style-type: none"><li>Developed a responsive personal portfolio website using HTML5, CSS3, and JavaScript.</li><li>Deployed using GitHub Pages, showcasing technical projects and contact information for networking.</li></ul>

## 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