# Benjamin Mah

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## EDUCATION

University of Toronto

May 2026

Bachelor of Applied Science in Engineering Science

Toronto, Canada

Major in Machine Learning Engineering, Minor in Engineering Business

Relevant Courses: Data Structures & Algorithms, Neural Networks, Deep Learning, Operating Systems, Probabilistic Reasoning

### EXPERIENCE

Asana

May 2025 – Present

Data Science Intern

Vancouver, Canada

- Leading data-driven analysis to identify key patterns in customer churn using clustering and predictive churn modeling, revealing a potential recovery of \$2M+ ARR through proactive and personalized retention techniques
- Initiated and executed opportunity sizing for automatic seat upgrades, analyzing upgrade-to-churn patterns and assisted improving customer communication frameworks to mitigate post-upgrade customer churn by 15%
- Delivered ad-hoc analytical requests from product management teams using **Databricks** and **Redash**, building interactive dashboards and providing rapid data insights to support product decisions and A/B experimentation

Mozilla May 2024 – April 2025

Machine Learning Engineer Intern

Toronto, Canada

- Built and deployed ML models using **XGBoost** and **scikit-learn** for automated bug triaging through a bot deployed in **Bugzilla** to automate triage workflows and reduce manual processing by **50+ hours** monthly
- Co-authored a research paper on a GPT-based code review bot, collaborating with **Ubisoft**, **Queen's University**, and **Polytechnique Montréal**, used by over **200 engineers** and leading to a **30**% reduction in review time
- Fine-tuned pre-trained large language models using **Hugging Face Transformers**, **PyTorch**, and **PEFT** for generating code that addresses inline comments, using a dataset of **15,000**+ annotated patch fixes and review comments, achieving an **8%** higher acceptance rate compared to baseline models like **GPT-4** and **Claude 3**

Cohere

September 2023 – April 2024

Data Specialist

Toronto, Canada

- Audited and annotated machine learning datasets using **Scale AI**, identifying and correcting labeling errors across thousands of samples, enhancing model performance and saving over **100 hours** of processing time each month
- Conducted in-depth comparative analysis of LLM-generated code completions written in **Python**, **JavaScript**, and **SQL**, refining validation processes to align with coding standards, resulting in faster deployment cycles

#### Royal Bank of Canada

 $May\ 2023-August\ 2023$ 

Machine Learning Engineer Intern

Toronto, Canada

- Developed a machine learning tool for financial advisors, using semantic search with LangChain, Qdrant, Dask, and NumPy to efficiently process user queries from financial databases, boosting response speed in information retrieval (IR) and extractive question answering (EQA) by 40% through optimized query embeddings
- Designed and implemented a scalable multi-type file processing pipeline with efficient retrieval endpoints, using **Python** and **Amazon S3** to handle various complex textual data formats, reducing proof-of-concept (PoC) development time by **10 hours** per project and standardizing reusable code for future generative AI initiatives

#### Projects

Audio Style Transfer 🗹 | PyTorch, Librosa, NoiseReduce

- Developed a neural style transfer model to transform non-standard English accents into a standardized accent, validated using Google's ASR model to calculate Word Error Rate (WER) and improve transcription accuracy
- Implemented a robust data processing pipeline using **Librosa** and **NoiseReduce** for audio decoding, noise reduction, and spectrogram generation, supporting the training of the NST model built with convolutional layers

## SKILLS

Languages: Python, SQL, C/C++, JavaScript, HTML/CSS, MATLAB

Frameworks/Tools: PyTorch, TensorFlow, Databricks, Redash, LangChain, AWS, Flask, Git, VSCode, Jupyter Libraries/APIs: pandas, NumPy, scikit-learn, XGBoost, Transformers, SciPy, Matplotlib, ChromaDB, Qdrant

Interests: Record Collecting, Studio Ghibli, Videography, Music Production, NBA, Formula 1