

Benjamin Mah

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EDUCATION

University of Toronto

Bachelor of Applied Science in Engineering Science

Major in Machine Intelligence with Minor in Engineering Business

Relevant Courses: Data Structures & Algorithms, Neural Networks and Deep Learning, Reinforcement Learning, Machine Intelligence & Software, Operating Systems, Digital Systems, Probabilistic Reasoning

Toronto, Canada

Expected May 2026

EXPERIENCE

Mozilla

Machine Learning Engineer Intern

- Continuous Integration and Quality Tools Team (BugBug)

May 2024 – Present

Toronto, ON

Cohere

Data Quality Specialist & AI Data Trainer

- Auditing machine learning data, revising errors, boosting accuracy by **15%** while optimizing data processing.
- Collaborating closely with cross-functional teams, including data engineers, to ensure data accuracy, completeness, and consistency, achieving a **98%** accuracy rate and facilitating LLM model refinement and reliability.
- Conducting comparative analysis of machine learning completions, advancing the learning rate of the models.

September 2023 – March 2024

Toronto, ON

Royal Bank of Canada (RBC)

Machine Learning Engineer Intern

- Worked within the Generative AI team within RBC's Technology and Operations Innovation Labs.
- Developed a machine learning application using semantic search, parallel processing, and prompting techniques to parse, chunk, embed, match, and respond to user questions on financial libraries in both IR and EQA stages.
- Led the development of a multi-type file processing pipeline with retrieval endpoints, accelerating proof-of-concept development by **30%** through the elimination of repetitive code for future projects leveraging generative AI.
- Used Python, LangChain, Qdrant, Amazon S3, and OpenAI models to boost accuracy and efficiency by **67%**.

May 2023 – August 2023

Toronto, ON

FlipDoor

Co-Founder & Principal Software Engineer

- Co-founded a startup focused on implementing a mobile application using AI algorithms to improve pairing with landlords and tenants backed by the University of Toronto Hatchery, an engineering-based startup incubator.
- Principal software engineer using MERN stack and data wrangling to build Tinder-like machine learning algorithm for the rental market, increasing client satisfaction rate by **55%** from conducted surveys and feedback from users.
- Created Figma mockups, conducted market research, and presented business pitches to potential investors with a projected yearly revenue of **\$100,000** nationwide and awarded with **\$10,000** in funding.

March 2022 – April 2023

Toronto, ON

PROJECTS

Dubu Chatbot | *Python, JavaScript, HTML, CSS, Flask, OpenAI API, ChromaDB*

- Developed a user-friendly chatbot for small businesses, enabling PDF uploads for custom interactions.
- Engineered to support 8 unique tones, enabling over 255 tone combinations for enhanced user engagement.
- Utilized ada-002 for embedding generation, Cohere's Chat Model and OpenAI's GPT-3.5 for language processing, and ChromaDB for vector storage of the parsed text chunks.

MoodPalette | *Python, JavaScript, HTML, CSS, Flask, DeepFace Library*

- Created an art therapy application leveraging Meta's DeepFace library for real-time facial mood analysis.
- Enhanced user interaction with image capture/retake functionality, adjustable brush sizes, and artwork saving.
- Programmed dynamic adjustments to the color palette and art prompts to reflect the user's emotional state.

SKILLS

Languages: Python, C/C++, JavaScript, MATLAB, SystemVerilog, RISC-V/Assembly, HTML/CSS, SQL
Frameworks/Tools: LangChain, Flask, PyTorch, TensorFlow, AWS, Git, VSCode, Jupyter Notebook, JAX
Libraries/APIs: pandas, NumPy, Matplotlib, OpenAI, ChromaDB, Qdrant, Gradio, ROS
Interests: Record Collecting, Music Production, Studio Ghibli Films, Formula 1, Basketball