Alvina Yang

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EDUCATION

University of Toronto St. George — April 2026 (expected)
B.Sc. Computer Science — *Toronto, ON*
Scholarships: Timothy P. Morton Scholarship (**$30,000+**)

EXPERIENCE

Undergraduate Researcher | *Intelligent Adaptive Interventions Lab* — May 2024 – Present
- Worked under Ph.D candidate, Mohi Reza, on ABScribe, a co-writing tool for generating variations using **GPT-4**.
- Redesigned homepage with **React Bootstrap**, enhancing **UI**, navigation, and funtionality.
- Maintained text editor page and enhanced functionality with chunk-splitting features.

Software Development Student | *Blackberry QNX* — May 2024 – August 2024
- Spearheaded development of automation tests for the QNX VSCode extension, reducing manual testing by **100%**.
- Automated **150+ test cases** using **TypeScript**, increasing runtime efficiency by **80%** and coverage by **70%**.
- Implemented targeted execution of pipeline stages using **Bash** and **Python**.

Student Researcher | *Computational Social Science Lab* — March 2024 – Present
- Designed the interface for the Maia chess bot under Dr. Ashton Anderson, leveraging **UX/UI** practises.
- Engineered a scalable interactive platform using **Next.js** and **React**, facilitating profile management.

FREELANCE

Computer Vision Member & Marketing Director | *U of T Autonomous Rover Team* — Sept. 2023 – Present
- Used **Python**, **Pytorch**, and **OpenCV** for image processing and depth/object recognition.
- Propelled social media growth by **120%**, expanding the Autonomous Rover Team's online presence.

Industry Relations Coordinator | *U of T Machine Intelligence Student Team* — Sept. 2023 – Present
- Secured industry partnerships and raising **$10,000+**, enhancing event quality and relevance.

Competition Director | *U of T Engineering Kompetitions* — Sept. 2023 – Present
- Managed the annual U of T Engineering Debate competition, overseeing events and providing training.

PROJECTS

** HackerQuest** | *AWS, Chroma, LangChain, Next.js, Three.js, Flask, Python, Tailwind CSS, Docker* — Sept. 2024
- Designed a **low-latency** AI interview platform, facilitating live pair-programming and behavioral assessments.
- Implemented behavioral interview features, using resume analysis to simulate real-time HR-like questioning.
- Used **vector search** to provide tailored LeetCode questions, supporting a live technical interview simulation.
- Produced detailed summary with actionable AI-driven suggestions and performance metrics.

** HelloRemi** | *React, Three.js, Python, Cohere API, Tailwind CSS, Flask, Arduino UNO* — Jan. 2024
- Worked in team of 4 to create a reminiscence therapy tool for dementia patients.
- Leveraged **Cohere API** for story generation, **Arduino UNO** for story-telling, and React for the website.
- Awarded **1st Place** in UofT Hacks, RBC Category

** AI Playground** | *Java, Deep Java Library (DJL), JavaFX, MacOS, IntelliJ, GitHub* — Sept. 2023
- Leveraged the **Deep Java Learning** to create a platform in a team of 6 for decision boundary visualization.
- Platform allows users to customize data sets and parameters to demonstrate impact on the decision boundary.

** 3D Portfolio** | *React, Three.js, Blender, Tailwind CSS, Figma, JavaScript* — Sept. 2023
- Implemented an interactive 3D portfolio website using **Blender** and **Three.js** for object creation.

SKILLS

Skills: Python, Java, HTML/CSS, JavaScript/TypeScript, React, Bash, NumPy, Tensorflow, OpenCV, PyTorch, Pandas, Flutter/Dart, C/C++, R, SQL, Assembly, Three.js, RAG, MongoDB, Flask

Certifications: IBM AI Engineering 2024, Stanford Machine Learning Specialization 2023, Udemy Flutter and Dart Certification 2022, Udemy Deep Learning and Neural Networks Certification 2023