

# CHI MING LAI

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## Summary

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- **Bachelor of Computing candidate, Queen's University.**
- Full-stack for AI demos — built and deployed **Fake news detector** using **Next.js** and **FastAPI** on **Vercel**; comfortable across frontend and backend.
- **Shows up** — ready to commit 6–8 hrs/week to projects and reading groups.
- **Team player** — communicate updates in GitHub/issues, ask for help early.
- Algorithms mindset — solved 200+ LeetCode problems; enjoy turning **DP** and **graph** ideas into clean, efficient code.

## Education

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### Queen's University

*Bachelor of Computing (Honors)*

September 2024 – Present

Kingston, Canada

- Computer Science program has developed my analytical ability to problem solve, differentiate, critically think, and create code.
- Relevant Course: COGS100 provided a broad introduction to different methods of AI training.
- Languages: Python, JavaScript, HTML/CSS, C/C++, SQL/NoSQL (Oracle, Postgres, MongoDB).

## Technical Experience

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### AI Fake news detector

2025

- Fine-tuned BERT-base for fake-news detection using PyTorch and Transformers on Google colab; achieved  $\approx 80\%$  accuracy/F1 on a held-out test set.
- Deployed with Vercel with user interface, hosted on Hugging Face spaces.

### Portfolio Website

2023

- Developed and deployed a responsive portfolio site using React and Next.js for both frontend and backend development.

### Museum Treasure Hunt WebApp development

2023

- Developed a museum artifact browsing web app using Next.js and React, deployed on Vercel.
- Created custom middleware to handle authentication, validate API requests, and manage role-based access control, ensuring secure and efficient data flow between frontend and backend.
- Built secure user authentication and authorization by integrating MongoDB for user data storage (e.g., usernames and hashed passwords) and JWT (JSON Web Token) for session management and access control.