

# MATTHEW LEW

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## Education

### Toronto Metropolitan University

Sep. 2021 – May 2026

*Honours Bachelor of Science (HBS), Computer Science (Co-Op), Minor in Cybersecurity*

- **CGPA:** 3.86; **Dean's List:** 2021–2025
- **Relevant Coursework:** Algorithms, Operating Systems, Database Systems, Artificial Intelligence, Software Engineering, Cybersecurity

## Skills

**Programming Languages:** Python, Java, C/C++, TypeScript, JavaScript, Rust, Haskell, Bash  
**Web Development:** HTML, CSS, React, Node.js, Next.js, Tailwind CSS  
**Data & Databases:** SQL, PostgreSQL, MySQL, SQLite, Pandas  
**Tools & Platforms:** Git, Docker, Jenkins, AWS, Azure DevOps, Linux, Agile  
**Soft Skills:** Communication, Teamwork, Initiative, Problem Solving

## Experience

### Toronto Metropolitan University

Sep 2025 – Present

*Artificial Intelligence & Computer Programming Assistant*

Toronto, ON

- Designing and building an AI-driven chatbot to guide students in academic program navigation.
- Developing and testing NLP-driven features using Python and data science libraries.

### Toronto Metropolitan University – CRESSET Lab

Sep 2025 – Present

*Researcher - IoT Software Security*

Toronto, ON

- Investigating applications of LLMs and Agentic AI in secure IoT software development.
- Prototyping pipelines that convert requirements into UML diagrams, and UML diagrams into source code.

### Mitsubishi Heavy Industries RJ Aviation – MHI RJ

May 2023 – Aug. 2024

*Data and Application Services Developer*

Mississauga, ON

- Navigator IETP | *Python, Java, MySQL, Jenkins, Maven, Tomcat*
  - Primary Developer maintaining a customer-facing Java application (web and standalone).
  - Resolved customer issues via email and live virtual meetings, leveraging debugging skills and log analysis to deliver effective technical solutions.
  - Implemented server and database migration from third party to internal services, increasing application profit by 40%.
- Automated Operator Data Pipeline | *Python, SQL\* Loader, Pandas, OracleSQL, Cron*
  - Proposed, designed, and implemented automation for manual data loading, eliminating human error and saving 5+ hours weekly.
  - Developed Python scripts and SQL\* Loader control files to fetch/load data and generate daily email reports via Cron-job scheduling.

## Projects

### Personal Portfolio Website | *Next.js, TypeScript, Tailwind CSS*

[matthewlew.dev](https://matthewlew.dev) 2025 – Present

- Designed, developed, and deployed a responsive personal portfolio showcasing skills, projects, and experience, hosted on Vercel with a custom domain.
- Built interactive UI components (skill-sorting game, 3D cube, project carousel, experience timeline) and integrated a Resend API contact form optimized for accessibility and mobile performance.

### AI Resume Tailor Web App | *Next.js, Tailwind CSS, OpenAI API, Prisma, SQLite, Git*

Jun. 2025

- Developed an AI-powered web app that generates tailored LaTeX resumes and cover letters by analyzing user resumes and job descriptions using OpenAI's GPT model.
- Implemented parsing for LaTeX and PDF uploads into structured JSON stored in a local SQLite database.

### Adult Income Machine Learning Classifier | *Python, Pandas, NumPy, scikit-learn, Git*

Apr. 2025

- Built a machine learning pipeline to classify adult income levels using UCI census data.
- Evaluated five models (Logistic Regression, Random Forest, Naive Bayes, SVM, k-NN) and visualized performance metrics with Matplotlib.