

E/C

Elliot Chin

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EDUCATION

**University of New Brunswick
Fredericton**
BS – Software Engineering

KEY SKILLS

Technical:

React, Django, Flask, Antd
Design, PyMongo, System Design,
Machine Learning, SQLite,
SQLAlchemy, Pandas, OpenpyXL,
Numpy, Matplotlib, Quality
Assurance

Developmental Languages:

Python, Java, JavaScript, CSS,
HTML, TailwindCSS, C, NoSQL,
SQL, Racket, MatLab, Bash

Third-Party APIs:

MongoDB, Circle CI, TuyaIoTm
Discord

Project Management:

GitHub, Agile, Trello, Google
Drive

Tools:

VS Code, VS Codium, Eclipse,
GCC, GIMP, Discord, Linux,
Mac, Windows, Microsoft Office,
Vim, Nano

OTHER SKILLS

Spoken Languages:

English, Mandarin, Cantonese,
Malay

EXPERIENCE

Jr. Software Developer

Siemens Canada • Fredericton, NB, CA

2023, June - Present

- Executing and aiding in quality assurance evaluations on an in-house product to ensure optimal performance and adherence to established standards.
- Acquiring knowledge in cybersecurity with a focus on Operational Technology (OT) to bolster organizational resilience against potential threats.
- Administering Virtual Machine (VM) servers hosting multiple VMs, utilized for rigorous testing scenarios to ensure system robustness.
- Overseeing and maintaining a comprehensive dashboard for the Security Operations Center (SOC), ensuring real-time monitoring and swift incident response.

Software Developer

University of New Brunswick • Fredericton, NB, CA

2022, May – 2022, Dec

- I held the exclusive responsibility of developing an automated tool aimed at streamlining academic advising and accreditation processes within the department, aligning with the standards set by the Canadian Engineering Accreditation Board (CEAB).
- Orchestrated the creation of two instrumental tools possessing analogous functionalities—comprising data collection, extraction, transformation, loading, and analysis—from Excel files, subsequently displaying the refined data on a dashboard devised utilizing Java's Swing library.
- Dedicated efforts towards designing and actualizing a maintainable and robust code base, ensuring simplified future maintenance and augmenting overall system resilience.
- Engaged in regular dialogues with key stakeholders during meetings, to articulate requirements, share design insights, and report the continuous progression of the project, ensuring alignment with stakeholder expectations and project goals.

PROJECTS

Automated Musicians ENGG4000 - Capstone Project

University of New Brunswick • Fredericton, NB, CA

GitHub Repository: [Automated Musicians](#)

A sophisticated system, engineered using Python, harnesses programmed music theory, pattern recognition, and extraction techniques to delve into the automated generation of music. This innovative approach not only explores the vast realm of musical compositions but also paves the way for novel methods of generating and understanding music through computational algorithms.

Student Tracking System SWE4103 – Software Quality and Project Management

University of New Brunswick • Fredericton, NB, CA

GitHub Repository: [Student Tacking System](#)

A meticulously designed web-based application aimed at bolstering the efficiency of university student advisors in delivering astute guidance to students. This system unfurls a streamlined dashboard, showcasing critical student information in an organized manner, facilitating informed advisory sessions. Additionally, it autonomously performs student audits, thereby ensuring adherence to academic standards and aiding in the seamless monitoring of student progress. This innovative tool significantly enhances the advisory process, promoting an enriched academic experience for both advisors and students alike.

Personal Portfolio Personal Project

Personal Project • Fredericton, NB, CA

Website Link: [Portfolio](#)

Embark on a tour of my creative endeavor, brought to life using the robust NextJS framework paired with the sleek TailwindCSS styling utility. This project served as a fertile ground for expanding my horizons in web design, its frameworks, and the effective utilization of React components, thereby enriching my development toolkit. It succinctly encapsulates various facets of my persona, presenting a well-rounded narrative of who I am. Through the seamless interplay of technology and creativity, this project showcases a snippet of my capabilities and the zest for innovation I bring to the digital domain. Each element on this platform is a testament to my learning journey, and a nod to the endless possibilities that lie in the confluence of design and code.