

Tuan To

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EDUCATION

Concordia University
Bachelor of Computer Science
Oak Bay High School

Sept. 2019 – Dec. 2023
Current GPA: 3.91/4.20
Aug. 2017 – June 2019
GPA: 3.7/4.0

RELEVANT COURSEWORK

Grades: Exclusively A's on all listed, completed courses
Courses: Data Structures & Algorithms, Advanced Program Design with C++, Operating Systems, Databases, Compiler Design, Data Communications & Computer Networks, Computer Vision
Awards: Concordia Dean's List 2021

SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, C#, HTML/CSS
Tools: Git/GitHub, Unix Shell/Bash, Windows Batch, Jenkins, VS Code
Frameworks: React, Node.js, JUnit, Material-UI
Libraries: pandas, NumPy, SciPy, NLTK, OpenCV, Matplotlib
Project Tools: Scrum, DevOps, KanBan

WORK EXPERIENCE

- Alstom** | *TCMS Verification & Test Engineer Intern* May 2023 – Present
- Developed test cases to verify a new release of the train control monitoring system (TCMS)
 - Developed a Python application to simulate a micro-controller that was missing from the test bench
 - Automated 60 test cases using Python, Bash script, Batch file, and Squish
 - Integrated CI/CD tools (Jenkins) to the project for automated test case execution and result report
 - Led the test team and daily scrum meetings for 3 weeks; participated in Sprint planning and Retrospective
- Bombardier Aerospace** | *BIS Operations Architect Junior* Jan. 2022 – Apr. 2022
- Analyzed Bombardier's software lifecycle and built a report using Power BI
 - Built a Machine Learning model to efficiently clean lifecycle data
 - Deployed database monitoring software (Datadog) for production servers
 - Coordinated between different teams and departments to solve problems for the project

PROJECTS

- Compiler Design** | *Java, Assembly Code, UML, Git, VS Code* Jan. 2023 – Apr. 2023
- Developed a compiler that transforms human-readable code to assembly code
 - Designed the lexical analyzer based on finite automata, syntax analyzer based on context-free grammar, and abstract tree generator using tree data structure
 - Implemented an assembly code generator that can handle multidimensional arrays and object-oriented operations with inspiration from the C programming language
- Video Streaming App** | *JavaScript, Bash, DASH, Video Encoding, MySQL, PHP* Jan. 2023 – Apr. 2023
- Developed a web-based video streaming app using JavaScript and the LAMP stack (Linux, Apache, MySQL, PHP)
 - Integrated DASH library to enable adaptive quality video streaming
 - Utilized ffmpeg to encode video to h.264 and segment them
 - Utilized bash script on the server side to compile a DASH playlist for video streaming
- Workplace Broadcast Website** | *JavaScript, React.js, Material UI* Jan. 2023
- In a team of 4, built an informational website for remote workers to catch up with fun events at work
 - Designed and implemented all front-end elements using React.js and Material UI
 - Learned how to develop front-end from scratch within 24 hours