

WILLIAM WANG

Software Engineer and Computer Science Student

@ williamwang256@gmail.com
github.com/williamwang256

(+1) 819-921-3217

Toronto / Ottawa, Ontario, Canada

linkedin.com/in/williamwang256

Fourth-year undergraduate student with prior work experience in C++ and Python. Aiming to learn and apply my knowledge of computer science and engineering in a summer internship. My neat and organized work is frequently praised by my peers, and I can always be relied upon to learn concepts quickly and complete tasks on time with great attention to detail.

WORK EXPERIENCE

Software Engineer Intern

Intel Corporation

May 2022 – Present

Toronto, Ontario, Canada

- Designed and optimized complex algorithms such as systolic matrix multiplication for FPGAs using C++ and high-level design tools.
- Presented and documented coding best practices and techniques to streamline the user experience and improve performance.
- Leveraged my knowledge of the product gained from developing libraries, tutorials and reference designs to support customers.
- Communicated feedback between customers and internal teams.

Software Engineer Intern

Ciena Canada, Inc.

May 2020 – August 2020

Ottawa, Ontario, Canada

- Implemented and tested programs for a test automation framework in Python with the Packet Control Plane Team.
- Expanded and improved the reporting of test case results through automatic email report charts.
- Produced short tutorial videos to document and explain features in a creative and easy-to-use way for users.

PROJECTS

AI-Powered Search Tool for Legal Rules

Team Project with Lexata Inc.

Winter 2022

- Engineered an innovative search tool utilizing OpenAI's GPT-3 to help legal teams accelerate and simplify the process of searching for laws.
- Devised an efficient database organization and back-end design that improved both ease of development and flexibility for future expansions.
- Collaborated and managed the project using agile software development principles to maximize team efficiency.

File System Design and Implementation

Coursework Project

Fall 2021

- Designed and implemented the algorithms and APIs for an extent-based file system in C.

Simple Map Diagrams – Front-end JS Library

Individual Project

Fall 2021

- Developed a front-end JavaScript library to streamline the creation of interactive mini-maps for web apps.

EDUCATION

Honours Bachelor of Science, Computer Science Specialist, and Mathematics Minor

University of Toronto St. George

September 2019 – April 2024 (expected)

- CGPA: 3.94/4.00
- Relevant Courses: Data Structures, Algorithms, Software Engineering, Artificial Intelligence, Operating Systems, Databases, Web Development.

International Baccalaureate Diploma Program and Ontario Secondary School Diploma

Colonel By Secondary School

Sept 2015 – June 2019

- IB Score: 39 / 45
- Leader for Black History Month Club. Led and planned a mural painting project while coordinating with school staff and students to ensure weekly club meetings and fundraisers went smoothly.


SKILLS

C C++ SYCL FPGA high-level synthesis
Python Django MongoDB SQL
HTML/CSS JavaScript React
Git GitHub Actions Heroku
Java Haskell Racket

ACHIEVEMENTS

 **U of T ArtSci Dean's List Scholar**
2020 – 2021 and 2021 – 2022

 **Diplôme d'études en langue française (DELF) Level B1**
January 2019

 **Ontario Scholar Award**
June 2019