WILLIAM WANG

Software Engineer and Computer Science Student

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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

Al-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.

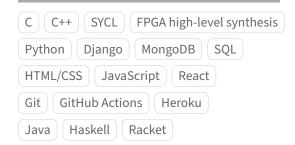
International Baccalaureate Diploma Program and Ontario Secondary School Diploma

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



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