# **WILLIAM WANG**

#### **Software Engineer and Computer Science Student**

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Toronto / Ottawa, Ontario, Canada

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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

**i** 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.

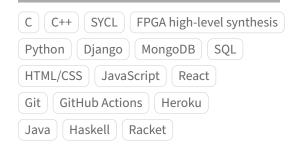
International Baccalaureate Diploma Program and Ontario Secondary School Diploma

#### **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