

# Zenghao Wang

3RD YEAR COMPUTER SCIENCE · 3.82 / 4 CGPA

Toronto, Canada

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## Education

### University of Toronto - St. George Campus

Toronto, Canada

HONORS BACHELOR OF SCIENCE IN COMPUTER SCIENCE, MATHEMATICS, AND CLASSICS

Sept 2018 - May 2023 (Expected)

- **3.82 CGPA**
- **Relevant Courses:** Operating Systems, Algorithm Design and Analysis, Data Structures, Computer Organization, Advanced Multivariable Calculus, Software Design, Systems Programming
- **Currently Taking:** Software Development, Web Development, Functional Programming Paradigms

## Skills

**Languages:** Proficient in Python and C, have experience with JavaScript and Java

**Other Skills:** Git, HTML, React, Concurrency, Systems Programming

## Projects

### Libfuse Filesystem Implementation

Toronto, Canada

CODE AVAILABLE UPON REQUEST

June 2020 - July 2020

- Designed and implemented a fully functioning filesystem mounted in Linux userspace
- Chose an inode/extents structure based on ext4 for efficient allocation of space
- Designed filesystem to handle arbitrary size and number of inodes

### Virtual Memory

Toronto, Canada

CODE AVAILABLE UPON REQUEST

July 2020 - August 2020

- Implemented virtual-to-physical address translation and several page replacement algorithms

### Multithreaded Synchronization

Toronto, Canada

CODE AVAILABLE UPON REQUEST

July 2020 - July 2020

- Implemented multithreaded message queue between arbitrary amount of consumers and producers
- Used appropriate synchronization primitives to facilitate proper data transfer and prevent deadlock

### Chat Server

Toronto, Canada

CODE AVAILABLE UPON REQUEST

March 2020 - March 2020

- Implemented command-line text server using sockets and TCP
- Implemented functionality to send messages, follow users, and handle partial reads without errors or memory leaks

### Probation: Android Minigame Collection

Toronto, Canada

[HTTPS://GITHUB.COM/ZENGHAOWANG/PROBATION](https://github.com/ZenghaoWang/PROBATION)

Sept 2019 - Dec 2019

- Worked in small team to create a collection of minigames for Android devices
- Utilized git effectively to track changes and coordinate workflows
- Used model-view-presenter architecture and design patterns to create maintainable and extendable code

## Experience

### Huawei

Markham, ON, Canada

COMPILER SOFTWARE ENGINEER

April 2021 - May 2022

- Designing, developing, and testing software in a wide range of products

### Hart House Symphonic Band

Toronto, ON, Canada

WEBMASTER - [HTTP://HHSB.SA.UTORONTO.CA](http://hhsb.sa.utoronto.ca)

July 2020 -

- Maintaining and updating website for UofT extracurricular musical ensemble - HTML, CSS, and SFTP

### K12 Building Blocks

Aurora, ON, Canada

PROGRAMMING INSTRUCTOR

July 2019 - August 2019

- Taught students ages 7-13 the basics of python and scratch
- Simplified programming concepts such as functions, variables, and loops in a friendly, intuitive, and approachable fashion
- Inspired several students to take an interest in programming by creating games and practical programs