YEAR COMPUTER SCIENCE · 3.84 / 4 CG

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)

- · 3.86 / 4 CGPA
- Relevant Courses: Operating Systems, Algorithm Design and Analysis, Data Structures, Computer Organization, Advanced Multivariable Calculus, Software Design, Systems Programming, Databases, Software Development
- · Currently: On PEY with Huawei Heterogenous Compiler Labs

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

June 2020 - July 2020

- CODE AVAILABLE UPON REQUEST
- Designed and implemented a fully functioning filesystem mounted in Linux userspace
- Chose an inode/extent 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 HTTPS://GITHUB.COM/ZENGHAOWANG/PROBATION

Toronto, Canada Sept 2019 - Dec 2019

• Worked in small team to create a collection of minigames for Android devices

- Worked in Small team to create a collection of milligames for Andre
- 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 Heterogenous Compiler Labs

Markham, ON, Canada

COMPILER SOFTWARE ENGINEER

May 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

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