

Thomas Janna

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Education

Carleton University

Ottawa, ON

BACHELOR OF COMPUTER SCIENCE (HONOURS) IN NETWORK COMPUTING, CO-OP

Sept. 2019 – Apr. 2024

- Transfer from Queen's University in 2021 - GPA: 4.23/4.30, Dean's Honour List, Excellence Scholarship
- Recipient of entrance scholarship for 90%+ high school average
- Special course interest in Distributed Computing, Operating Systems, Computer Architecture and Computer Networks

Work

ChangeRoom

Ottawa, ON

SOFTWARE DEVELOPER

May 2021 – Aug. 2021

- E-commerce platform for sustainable and ethically sourced clothing featuring 15 retailers
- Engineered features, such as a gender based recommendation system, using MongoDB, Express and React Native which improved the overall user experience and navigation
- Made use of Google Cloud API for translating dynamic content for over hundreds of product descriptions for users in other regions
- Worked with Google Developer Console as the lead package maintainer for the Google Play release

Real-Time Engineering & Simulation Inc.

Ottawa, ON

SOFTWARE DEVELOPER

May 2020 – Aug. 2021

- Developed a systems networking protocol for embedded devices in C
- Focus on studying and implementing modern security practices and cryptographic methods to build a private networking system
- Ported C library to Android and Wear OS using JNI and NDK to expand the functionality and availability of the protocol
- Configured and secured company git server and instructed others on generating and using SSH keys

Queen's University

Kingston, ON

TEACHING ASSISTANT

Sept. 2020 – Apr. 2021

- Teaching Assistant for Introduction to Computing Science II (CISC124), during the winter 2021 semester
- Teaching Assistant for Discrete Mathematics for Computing I (CISC102), during the fall 2020 semester
- Graded assignments and held weekly office hours to help supplement student instruction

Haiku

Github

OPEN SOURCE CONTRIBUTOR

- Contributed to the Haiku operating system project by porting software to the official HaikuPorts repository

Skills

Languages:

C, C++, Python, Java, C#, JavaScript, HTML, CSS, Bash, x86/ARM/AVR Assembly

Libraries:

Qt, React Native, Express, Mongoose, OpenSSL, Selenium, Libsodium, SDL, JavaFX

Development Tools:

Android SDK, CMake, GDB, Valgrind, Git, Google Cloud API, Mailchimp Marketing API, Arduino, Docker

Additional Interests

- Administering and maintaining a general purpose home and web server
 - Apache HTTP server and certbot certificate generation
 - WireGuard and dnsmasq for a network wide VPN connection and DNS server
 - SMB (Samba) and AFP (Netatalk) for a local network drive
- Participant in QHacks, a hackathon hosted by Queen's
- Participant in QCTF, a "capture the flag" computer security/hacking contest at Queen's
- Attended DEF CON 26, international computer hacking and cybersecurity conference
- Scripting general purpose bash utilities for customizing my Linux PC
- Drummer in semi-professional rock band, Space Park