

# Thomas Janna

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## Education

### Queen's University

BACHELOR OF COMPUTING (HONOURS) IN SOFTWARE DESIGN

- GPA: 4.23/4.30, Dean's Honour List
- Software Design specialization stream
- Excellence Scholarship for 90%+ high school average

Kingston, ON

Sept. 2019 – Apr. 2023

## Work

### ChangeRoom

SOFTWARE DEVELOPER

- 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 Android package maintainer the Android Google Play release

Ottawa, ON

May 2021 – Aug. 2021

### Real-Time Engineering & Simulation Inc.

SOFTWARE DEVELOPER

- 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

Ottawa, ON

May 2020 – Aug. 2021

### Queen's University

TEACHING ASSISTANT

- 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

Kingston, ON

Sept. 2020 – Apr. 2021

### Haiku

OPEN SOURCE CONTRIBUTOR

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

Github

## Skills

### Languages:

C, C++, Python, Java, C#, JavaScript, HTML, CSS, Bash, x86 and ARM 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