Thomas Janna

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Education

Queen's University   *Kingston, ON*
BACHELOR OF COMPUTING (HONOURS) IN SOFTWARE DESIGN   *Sept. 2019 – Apr. 2023*
- GPA: 4.23/4.30, Dean's Honour List
- Software Design specialization stream
- Excellence Scholarship for 90%+ high school average

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 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