Joshua Demkiw

Software Developer joshuademkiw.com

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Education: Bachelor of Applied Science, Electrical Engineering, Honours

University of Waterloo 2012-2017 | Waterloo, ON, Canada

Technical: Low Level: Radare2, x86, Device drivers, Reverse Engineering

pthreads multithreading in C

Security: OpenSSL library encryption & hashing in C++

Symmetric/Asymmetric encryption and decryption, Session Management, BeautifulSoup web scraping

Databases: mySQL database with Python connector

Mobile: Design and implementation of iOS applications to include

barcode scanners and google maps API

Electrical: Fusing co-ordination, transformer and wire loading, grounding

projects

EXPERIENCE: Software Developer, Ottawa, ON, Jan 2018 – Present

Reverse engineering and vulnerability testing using Radare2, gdb

- Multithreaded file encryption with pthreads and OpenSSL C/C++
- Python based RSA encryption, BeautifulSoup web scraping into MySQL database

Supply Chain, Babcock International, Victoria, BC, Winter 2017

- Data analysis to optimize docking period repairs
- Supplier management

Mining Engineering Intern, Detour Gold Corp., Cochrane, ON, Fall 2016

- Mining equipment design
- Equipment database creation and design

Engineering Intern, Hydro Ottawa inc., Ottawa, ON, Fall 2015

- Fusing coordination for distribution level transformers/circuits
- Equipment specification grounding project involving ground plates and conductive grounding cement "SANearth"

Junior Electrical Designer, Canadian Nuclear Laboratories, Petawawa, ON, Winter 2014

Designed and reviewed electrical drawings for fire safety

Computer Engineering Intern, BlueCoat Systems Inc. (now Symantec), Waterloo, ON, Fall 2013

· Linux based development on web filtering security system

iOS Software Developer, PetroBeacon Technology Ltd., Calgary, AB, Summer 2014

 Independent development of projects and features for the iOS application, including implementing a barcode scanner and Google Maps API.