Nicholas Houghton

Curriculum vitae

WORK EXPERIENCE

MAY 2016 - CURRENT

Ocean Networks Canada
Software Developer

Designed, developed, and maintained software for acquiring, publishing and processing large-scale oceanic data. Used Java, Javascript, CSS, HTML, and SQL; frequently used performance analysis tools such as Grafana and JMeter.

SEPTEMBER 2015 - DECEMBER 2015

Univeristy of Victoria - ECE Department

Teaching Assitant

CENG 255, Computer Architecture: Responsible for student learning in a hands on lab environment. Required to have intimate knowledge of the STM32 32-bit ARM MCU use in class as well as the Eclipse IDE, the C programming language and ARM assembly programming.

SEPTEMBER 2014 - MAY 2015

Univeristy of Victoria - ECE Department

Junior Research Assistant

Responsible for the software implementation of a experimental fully-homomorphic encryption algorithm using the C++ programming language and contributed to the algorithm design and conception. Responsible for testing management and execution on the Westgrid-Research Computing super computer servers. Designed and built a graphical user interface for an experimental run-time operating system using the Swing Jframe.

January 2014 December 2014

Saanich Commonwealth Place - Victoria B.C.

Aquatic Team Leader / Lifeguard

Responsible for the direct supervision and management of lifeguards and swim instructors. Responsible for facility and equipment management. Performed incident management, quality of first-aid assessment and supervision, emergency medical services communication. Responsible for facility inter-departmental co-operation and communication.

SKILLS

ACADEMIC

SOFTWARE C++, Unity, Unreal 4, OpenGL, GLSL,

Blender, Java, JavaScript, HTML, CSS, Ruby on Rails, Linux, C, C#, Git, SVN

Ruby off Rails, Effux, C, Cπ, Off, OVI

Lagrangian Mechanics, Quaternions, Splines, Integrators, Calculus, Physics,

Academic Writing, Research, Public

Speaking

PERSONAL TopCoder Competitive Programming,

First-Aid, Music

🔼 2446 Sinclair rd Victoria B.C. Canada

a 1 (250) 893-1988

□ nhoughto5@gmail.com

www.nickhoughton.ca

EDUCATION

2015-2016 Computer Engineer

M.ASc

University of Victoria

2010-2015 Computer Engineer

B.ENG

University of Victoria

PROJECTS

2017 **Jump-Ship: 2D Unity Game** Unity 5, C#

2016 **Automated Hardware Trojan Detector** *Java, Java-Swing, RapidSmith*

2016 Globules - Physical System Simulation

C++, OpenGL 3, GLSL

2015 Zombiehunt - Video Game

C++, OpenGL 2, Blender

2015 Hardware Trojan System HTML, C#, CSS, JS

2015 Day Trading - Distributed System

Java, XML

2015 Homomorphic Encryption

C++. OpenMP

References

DR. BRIAN WYVILL Computer Science

University of Victoria Email: bwyvill@uvic.ca Phone:250 472 5760

DR. FAYEZ GEBALI Electrical and Computer

Engineering University of

Victoria Email:

Fayez@ece.uvic.ca Phone:

250 721 6036

NOTES

- Visit my website to see my work portfolio: www.nickhoughton.ca
- More references available on request.