

Nicholas Houghton

Curriculum vitae

WORK EXPERIENCE

MAY 2016 - CURRENT

Ocean Networks Canada
Junior Developer

Designed, developed, and maintained software for acquiring, publishing and processing oceanic data. Used Java, Javascript, CSS, HTML, and SQL to provide easy to use user interfaces. Frequently used performance monitoring tools such as Grafana to observe system behavior.

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.

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EDUCATION

2015-2016 **Computer Engineer**
M.ASc
University of Victoria

2010-2015 **Computer Engineer**
B.ENG
University of Victoria

PROJECTS

- 2016 **Automated Hardware Trojan Detector**
Java, Java-Swing, RapidSmith
- 2015 **Hardware Trojan System**
Web Dev - HTML, C#, CSS, JS
- 2015 **Zombiehunt - Video Game**
Software Development - C++, OpenGL
- 2015 **Day Trading - Distributed System**
Software Development - Java, XML
- 2015 **Homomorphic Encryption**
Software Implementation Engineer - C++. OpenMP

SKILLS

- SOFTWARE Java, JavaScript, HTML, CSS, Linux, C, C#, C++, Git, SVN
- ACADEMIC Calculus, Discreet Math, Physics, Academic Writing, Research, Public Speaking
- PERSONAL *TopCoder* Competitive Programming, First-Aid, Music

REFERENCES

- DR. FAYEZ GEBALI Electrical and Computer Engineering Dept, Chair University of Victoria
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Phone: 250 721 6036
- ANCA E. COJOCARU P.Eng., LEED AP Senior Design Engineer
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