

# Nicholas Ng

Vancouver, BC | nicholasng13@gmail.com | 778-846-5811 | linkedin.com/in/nicholasng

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## EDUCATION

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**University of British Columbia**  
**Bachelor of Applied Science - Computer Engineering**  
Dean's Honour List

September, 2018 – May, 2023

## WORK EXPERIENCE

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**UBC Information Technology**, Vancouver, BC  
**Automation Developer Intern**

May, 2022 – August, 2022

- Designed, developed, and tested automation solutions for manual, runbook-based tasks using UiPath
- Performed business analyst duties by creating process definition documents with business teams
- Utilized the Atlassian software suite to document solutions, track issues, and maintain software

**Verathon Medical**, Burnaby, BC  
**Software Test Engineer Co-op**

January, 2021 – August, 2021

- Built a testing tool using Python and OpenCV to automate battery drain and charge verification tests
- Documented a new test plan and revised existing plans to make tests faster and more reliable
- Performed runbook-based verification and validation test plans and reported software defects on Jira

**Vancouver Minor Hockey Association**, Vancouver, BC  
**Ice Hockey Official**

October, 2013 – Present

- Mentored younger officials and hockey players to improve knowledge of hockey rules
- Established strong leadership and decision-making skills while refereeing games
- Communicated with officials, coaches and players to promote healthy relationships

## TECHNICAL PROJECTS

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**Data Visualization and Dashboard Development**, UBC

September, 2022 – April, 2023

- Spearheaded implementation of ReactJS application to display real-time parking analytics to users
- Formulated forecasting model to predict near future parkade utilization trends with colleagues
- Built a consolidated database from multiple sources to store necessary data using FME

**Ultimate Security System**, UBC

February, 2022 – April, 2022

- Led network communication development using a Wi-Fi microcontroller integrated with an FPGA
- Programmed UART communication using Lua scripts and a Verilog FPGA adapter to retrieve images
- Inspected the implementation with unit and integration test to identify and fix software bugs

**Hockey League Database**, UBC

September, 2021 – December, 2021

- Designed and programmed a full database application from scratch with group members
- Implemented a combination of basic and complex queries used to manipulate data within the database
- Integrated SQL queries into a frontend application using a combination of PHP and HTML
- Acquired and strengthened skills in formulating and using SQL queries to obtain database information

## TECHNICAL SKILLS

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**Languages and Formats:** Python, Java, C/C++, JavaScript, SQL, HTML/CSS/JSON, Verilog

**Frameworks and Technologies:** ReactJS, NodeJS, Visual Studio, Git, Android Studio, UiPath

## PROFESSIONAL AFFILIATIONS

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Engineers & Geoscientist British Columbia (Student Member)

2018 – Present

## INTERESTS & ACTIVITIES

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Ice hockey, skiing, running, travelling, fantasy sports, mechanical keyboards, video games