

# Nicholas Ng

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## EDUCATION

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**University of British Columbia** **September, 2018 – May, 2023**  
**Bachelor of Applied Science in Computer Engineering with Distinction**

## WORK EXPERIENCE

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**UBC Information Technology, Vancouver, BC** **May, 2022 – August, 2022**  
**Automation Developer Intern**

- 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** **January, 2021 – August, 2021**  
**Software Test Engineer Co-op**

- 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** **October, 2013 – Present**  
**Ice Hockey Official**

- 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 team members
- 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 using SQL queries to fetch data
- 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

**Line Tracking Robot, UBC** **February, 2020 – March, 2020**

- Assembled and developed an autonomous line tracking robot in Python with group collaboration
- Designed and improved the proportional-integral-derivative (PID) controller by testing and debugging
- Compiled and interpreted sections of code to create a coherent and fully functional end product

## 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

## INTERESTS & ACTIVITIES

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