Nicholas Ng

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EDUCATION

University of British Columbia   **September, 2018 – May, 2023**
Bachelor of Applied Science - Computer Engineering
Dean's Honour List (3.75/4.33 GPA)

WORK EXPERIENCE

UBC Information Technology, Vancouver, BC   **May, 2022 – August, 2022**
Automation Developer Co-op
• 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**
Test Engineering Co-op
• Collaborated with software team to perform runbook-based verification and validation test plans
• Identified and reported software defects and verified Jira issues to improve product quality
• Worked closely with senior test engineers to identify problems and find solutions
• Performed product mechanical testing using mechanical jigs and test equipment to identify failure points

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

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

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

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

Engineers & Geoscientist British Columbia (Student Member)   2018 – Present

INTERESTS & ACTIVITIES

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