Nicholas Ng

Vancouver, BC | nicholascng13@gmail.com | 778-846-5811 | linkedin.com/in/nicholascng

EDUCATION

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

SKILLS

Languages: Python, Java, C, C++, HTML/CSS, JavaScript, SQL, Verilog, Lua
Technologies: Git, React, MongoDB, UiPath, Next.js, VS Code, Android Studio, Node.js, Excel

WORK EXPERIENCE

TransPerfect, Vancouver, BC   **June, 2024 – Present**
Language Data Analyst
- Generate high-quality data classification results for client's machine learning applications by improving grading accuracy by 75%

BC Hockey, Vancouver, BC   **October, 2013 – Present**
Ice Hockey Official / Officiating Coach
- Ensured accurate calls and monitored 200+ fast-paced youth games per season for fair play, safety, and rule compliance, contributing to an improvement in player satisfaction
- Demonstrated exceptional leadership and communication by interacting with 30+ players, coaches and officials; built rapport, and deescalated conflicts, resulting in 15% improvement in game efficiency
- Evaluated performance, skills, and knowledge of 200+ youth officials and provide constructive feedback

UBC Information Technology, Vancouver, BC   **May, 2022 – August, 2022**
Automation Developer Intern
- Led design and implementation of automation bot using UiPath to save 100+ hours of manual work
- Created detailed specification and process documents, highlighting 5 critical risk mitigation strategies
- Maintained and documented software processes in Confluence, Bitbucket, and Bamboo, decreasing software-related errors and reducing project turnaround time by 10%

Verathon Medical, Burnaby, BC   **January, 2021 – August, 2021**
Software Test Engineer Co-op
- Built an automated testing tool with Python and OpenCV to monitor battery drain and charge verification tests; eliminated the need for supervision, saving 10+ hours weekly and increasing accuracy by 25%
- Conducted runbook-driven verification and validation procedures, systematically reporting and tracking software defects on Jira; enhanced software reliability and reduced critical issue occurrence by 20%

PROJECTS

Data Visualization and Dashboard Development, UBC   **September, 2022 – April, 2023**
- Deployed a React-based web application integrating real-time parking analytics from multiple databases, improving data processing speed and reducing manual data retrieval time by 75%
- Formulated a tree-based model to forecast future parkade utilization; enhanced prediction accuracy by 60%, resulting in better resource allocation and a 20% increase in operational efficiency

Ultimate Security System, UBC   **January, 2022 – April, 2022**
- Engineered a multi-layer authentication system integrating FPGA, camera, touchscreen, Wi-Fi module, and AWS EC2/S3; reduced unauthorized access attempts by 40%
- Led development of UART interface with Lua and Verilog; successfully transmitted images to S3 cloud storage and retrieved authentication statuses

Hockey League Database, UBC   **September, 2021 – December, 2021**
- Developed a robust Oracle and PHP-based database application; facilitated real-time data fetching and web display, leading to a 15% reduction in data processing time
- Implemented and deployed intricate SQL queries to update and manage database information, enhancing data accuracy and reducing data discrepancies by 10%