Education

Simon Fraser University

BSC IN COMPUTER SCIENCE

- GPA: 3.66/4.33
- Dean's Honour Roll: Fall 2020 Spring 2020, Spring 2023
- Relevant Coursework: Data Structures & Algorithms, Computational Data Science, Database Systems, UI Design

Harry Nguyen

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Work Experience_

Motorola Solutions (Avigilon)

SOFTWARE DEVELOPER CO-OP

- Implemented features and bug-fixes for an access control product using React, Ruby on Rails, and JQuery
- Developed front-end components for an interactive map-based monitoring page, showcased at ISC West 2024
- Led a team of co-ops in prototyping a conversational AI chatbot, integrated with the core product, to perform system actions (e.g., locking access points) via natural language, earning praise from the CTO and cross-functional teams
- Enhanced UX by proposing and implementing a dynamically repositioning context menu using native browser API's
- Extended the front-end test suite by 15% through the addition of unit, snapshot, and user simulation tests

ICBC (Insurance Corporation of British Columbia)

Application Developer Co-op

- Assisted in the conversion of 12 legacy Java apps from IBM WebSphere to IBM Liberty servers
- Remediated cybersecurity vulnerabilities in 12 Java apps by configuring HTTP headers
- Resolved production incidents by debugging application code and collaborating with other departments

Projects_

Community Based Rehabilitation (CBR)

REACT, REACT NATIVE, POSTGRESSQL, TYPESCRIPT

- Collaborated with a non-profit to develop an open-source platform to support Haitian healthcare networks in tracking patient data and facilitating referrals to critical services (e.g., food aid, wheelchair access) for over 500 patients
- Implemented multilingual support (English/Bari) with react-i18next, improving accessibility for Haitian operators
- Designed and implemented Figma prototypes to streamline mobile app workflows, accelerating patient on-boarding

RLox

Rust

- Created a tree-walking interpreter for a custom programming language called RLox
- Implemented a lexer and parser to read in custom .lox files and construct an abstract syntax tree for interpretation
- Added advanced language features like classes, inheritance, first-class functions, and closures

NBA All-Star Classifier

Pandas, Jupyter, BeautifulSoup, Python

- Created a machine learning pipeline to identify NBA all-stars, achieving an accuracy score of 97%
- Performed ETL to generate features by processing over 60,000 NBA game box-scores and 12,000 player seasons
- Utilized BeautifulSoup to scrape basketball-reference.com and retrieve labels for training data
- Conducted PCA on player statistics to identify relationships between statistics and all-star selection

Technical Skills_____

Languages:	JavaScript/Typescript, Rust, Ruby, Python, Java
Libraries & Frameworks:	React, NextJS, Rails, Jest, React Testing Library, Tailwind CSS, JQuery, Express, Spring Boot
Technologies:	Git, HTML, CSS, NodeJS, PostgresSQL, Docker, Jira

Vancouver, B.C Sep 2019 – May 2025

Vancouver, B.C

Vancouver, B.C

Jan 2024 - Sep 2024

Jan 2022 – Sep 2022