BRIAN NGUYEN

Victoria, British Columbia
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EDUCATION

Bachelor of Software Engineering (BSEng), University of Victoria - Victoria, *BC* ***April 2027***
Standing: 2nd year - 3.1/4 GPA
Extracurricular courses: MIT intro to Machine Learning (MIT open learning library), Harvard CS50: intro to Python (Edx)

Graduation Diploma, Honour roll Student, Holy Cross Regional High school - Surrey, BC ***June 2023***
Achievements**:** President and founder of school's film club, vice president of economic society, member of business club, and volunteered monthly in a social justice club.

SKILLS

Programing: Java, C, Python, Javascript , MATLAB, ASM
Libraries: Numpy, Pytest, Pandas, Ml5.js, P5.js, Tensorflow.js
Web Development: HTML, CSS, Javascript, Node.js, React,js
Other Software: Git, Microsoft Office (Word, Powerpoint, Excel, etc..)
Hardware: circuitry, wiring, and embedded systems (arduino/raspberry pi)

PROJECTS

Auto Track- Personal Project (**Javascript, HTML, CSS**) ***March 2025***
- Built full-stack vehicle tracking application with Node.js backend and JavaScript frontend
- Designed RESTful API with complete CRUD operations and JSON data persistence
- Implemented intuitive UI with real-time status updates, filtering, and search capabilities

Drawing Using Machine Learning - Personal Project (**Javascript, HTML, CSS**) ***December 2024***
- Built a spatial drawing program using computer vision with javascript
- Identified key points on a pair of hands using a pre-trained ML model
- Used Javascript to recognize when users pinched their thumb and index to draw

Portfolio Website - Personal Project (**JavaScript, HTML, CSS**) ***June 2024***
- Custom built HTML website from scratch
- Implemented core CSS features like FlexBox, pseudo-classes, grid layout, and box model

Smart Bike Lane - Class Project (**Python, HTML, CSS, JavaScript, Raspberry Pi**) ***March 2024***
- Worked in a team of 4 to build a smart bike lane system that provides dynamic lighting for bikers in poor conditions
- Used JavaScript to implement interactive functionality such as buttons, and toggles
- Developed python code to handle analog input from ir, ambient light, and temperature sensors
- Presented project to a panel of peer judges which yielded a final grade of 91%

EXPERIENCE

Uvic Hybrid- Electrical & Software Subteam (**Matlab Simulink, C++**) ***December 2024***
- Optimized control system for new hybrid race car using Matlab Simulink
- Built and optimized a driver interface to show telemetry, through an array of arduinos in C++

WORK EXPERIENCE

Campus Auto, Service Wash Bay ***January 2025***
- Wash, vacuum and detail all serviced vehicles in the dealership
- Consistently has high attention to detail to guarantee customer satisfaction

YMCA, Sports Coach ***April 2023***
- Coached a basketball team of over a dozen kids, leading to many leadership awards.
- Coordinated practices, and games with two other coaches, as well as parents.
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