

BRIAN NGUYEN

Victoria, British Columbia

| nguyen.brian1403@gmail.com | briannnguyen03.github.io/myweb/index.html |

EDUCATION

Bachelor of Software Engineering (BSEng), University of Victoria - Victoria, BC
Standing: 2nd year - 3.1 GPA

April 2027

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.

Online courses: MIT intro to Machine Learning (MIT open learning library), Harvard CS50: intro to Python (Edx)

SKILLS

- Proficient in C, and Java
- Working knowledge of Python, Javascript, MATLAB, R, HTML, CSS, and ASM
- Basic knowledge of circuitry, wiring, and embedded systems (arduino/raspberry pi)
- Working knowledge of system design and analysis
- Working knowledge in MS tools (word, excel, ppt...)
- Experience with working in teams, and project management.

PROJECTS

Drawing Using Machine Learning - Personal Project (Javascript, HTML, CSS)

December 2024

- Using tensorflow.js and ML5.js I built a simple visual drawing program using computer vision
- Utilized the HandPose pre-trained ml model in ml5.js to identify key points on a hand
- Used Javascript to implement when users pinched their thumb and index to draw

The Game of Life- Personal Project (Javascript, HTML, CSS)

November 2024

- Recreated Conway's game of life in p5.js using 2d arrays
- Implemented Conway's algorithm to determine how each cell interacts with its neighbors

Portfolio Website - Personal Project (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
- Built a simple HTML website to display live data from sensors
- Used JavaScript to implement interactive functionality such as buttons
- Presented project to a panel of peer judges which yielded a final grade of 91%
- Developed python code to handle analog input from ir, ambient light, and temperature sensors

PROFESSIONAL EXPERIENCE

Internship, Dental Office

May 2023

- Shadowed a Dentist, and learned the day to day operations of a dental office
- Gained real world problem solving skills
- Learned to pay close attention to detail

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.

Freelance, Math Tutor

June 2023

- Tutored math in a variety of grade levels, including AP calculus.
- Organized weekly schedule of lessons with students