

Profile

BCIT Computer Information Technology student who takes initiative and has high standards in his own work and in group work. I bring experience in leadership and enthusiastic communication to motivate my peers and create a strong chemistry to produce the best results.

Technical Skills

Coding	Hardware / Software	Networking	Database
Python	Windows 10	IPv4 and IPv6 Routing	MySQL
C#	Linux	DHCP	MongoDB
Bash	Laptop Repairs	DNS	SQLite
HTML / CSS / JavaScript	Postman	NAT	
Node.JS / Angular	GitHub / Git		
Java	Figma		

Academic Projects

[Outbreak: Source](#) || Lead Developer

May 2020

BCIT Agile Methodology Course

- Worked alongside with 6 team members including lower term students
- Developed an API heavy idle-game application using the Agile development process and MEAN stack
- Wrote documents and tutorials for lower term students so they can contribute to the project
- Specialized in backend, database, and core mechanics of the game
- Technologies used: MongoDB, Express.js, Angular, Node.js, GitHub
- <https://github.com/jperlas2019/Outbreak-Source>

[HallPass](#) || Lead Designer

May 2020

BCIT UX/UI Design Course

- Worked in a team of 3 to design a universal school mobile application
- Designed a mobile app that would link to the school's online services and display information in a familiar user interface
- Created surveys and developed user personas to appropriately design the app according to their problems
- Reviewed peer work and gave constructive criticism to produce a better end product
- Technologies used: Figma
- <https://www.figma.com/proto/RJ5UcWjVAWLi2b6fQDyxfB/User-Flows?node-id=6%3A192&scaling=min-zoom>

[Python MP3 Player](#) || Lead Developer

Mar - Apr 2020

BCIT Object-Oriented Programming Course

- Worked with 2 other members using GitHub
- Programmed a music player using Python object-oriented fundamentals with a database and GUI
- Connected SQLite, VLC, and Tkinter to work together and play mp3 files from user's harddrive
- Wrote unit test code and manual tested using CRUD requests with Postman
- Technologies used: Python, SQLite, VLC, Tkinter, GitHub, Postman, eyed3 module
- <https://github.com/jperlas2019/Python-MP3-Player>

Router Project

Feb - Apr 2020

BCIT Networking Course

- Constructed a router using IPv4 and IPv6 to investigate the foundations of computer networking
- Connected over 4 nodes and 3 routers that includes DHCP, NAT, and packet filtering using nftables to make a network
- Set up a DNS server for the network to translate IP addresses into domain names
- Technologies used: CentOS, Red Hat

Food Ordering Website

Feb - Mar 2020

BCIT Web Applications Course

- Developed a food ordering website using MEAN stack and Bootstrap
- Programmed a login page using browser sessions to integrate user roles such as guest and admin
- Integrated security checks so that guests do not have/see admin pages/privileges
- Established a database to store items, price, and use them to calculate price
- Technologies used: MongoDB, Angular, Node.js, Express.js, Bootstrap

Personal Projects

[Combo Swipe](#)

May 2020 - Present

Unity Mobile Game

- Currently developing a single player 2D RPG mobile game using Unity and C#
- Programmed multiple data structures for the core mechanics of the game
- Implemented formulas for health, player stats, attack damage, and probability
- Conducted constant manual testing to decrease the potential of bugs and exploits
- Technologies used: Unity, C#

Experience

Beginner Jazz Band Student Teacher

Sept 2017 - June 2019

Holy Cross Regional High School Music Program

- Taught a beginner jazz band consisting of 16 students from grade 8 – 10 twice a week
- Spoke and presented to large crowds in multiple events to run (emcee)
- Inspired students to learn more about jazz and be motivated to come to class
- Critically analyzed individual playing and playing as a whole to improve each student and the band

Rides Operator

Jun 2017 - Sep 2018

Pacific National Exhibition (PNE)

- Loaded, unloaded, and maintained a roller coaster for over 100 guests for 5 days a week
- Motivated co-workers over long summer days to bring up enthusiasm
- Showed positive attitude and enthusiasm to bring joy to the guests
- Documented maintenance periods and problems with the train to predict future problems
- Adapted to changes in environment and various people to ensure the best possible experience for guests

Education

Computer Information Technology Diploma

Sept 2019 - Present

British Columbia Institute of Technology, GPA 86%