

JOSH PHANG

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EDUCATION

09/2021 – 05/2025 **UNIVERSITY OF NORTHERN BRITISH COLUMBIA**
BSc Computer Science, Minor in Mathematics

WORK EXPERIENCE

09/2022 – 08/2024 **CODE NINJAS – RICHMOND, BC**
Coding Instructor

- Introduced elementary and middle school students to code creation and simple game design with a team of instructors to facilitate early learning and interest in coding.
- Taught important fundamental concepts such as objects, conditionals, and loops through Scratch and JavaScript in a fun and engaging way, ultimately expanding our facility from less than 50 students to over 150 young coders.
- Reinforced strong and proper coding foundations that led to a student winning first place in Code Ninja's *International Ghostly Game Jam*

PROJECTS

09/2024 – 12/2024 **TASTEBUDS – A RECIPE SUGGESTION APP**
Full-stack web development

- Developed a recipe suggestion app that offers recipe suggestions based on ingredients stored in a user's pantry.
- Created a minimal API using ASP.NET to perform essential CRUD operations on a locally hosted Microsoft SSMS database.
- Designed an efficient database using T-SQL queries to store user data such as ingredients owned, favourite recipes, user login information, and shopping cart items.
- Developed the front-end webpage using Angular for modularity in components.
- Project available at <https://github.com/JoshPhang/TasteBuds>

PROJECTS CTND.

06/2022 –
08/2022

PERSONGIFY – A SONG SUGGESTION APP

Full-stack web development

- Worked in a team of 5 to develop a full stack web application, working in an Agile development environment to improve project-wide communication and hasten project delivery.
- Developed an application that provided users the ability to create Spotify playlists based on their personal preferences and commute times. Implemented functionality for saving playlists to user's Spotify accounts and sharing on Facebook feeds.
- Developed back-end functions for API calls in NodeJS for secure and reliable data retrieval and updating of Spotify accounts and playlists.
- Implemented database support using PostgreSQL enabling secure user account creation with SHA-2 password encryption.
- Utilized Spotify API calls for playlist generation, account management, and song playback features.
- Utilized Google Maps API calls for commute time calculation and location tracking, and Facebook API calls for sharing of generated playlists.

RELEVANT COURSEWORK – UNBC

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|----------------------------------------------------------|-----------------------------------------------------------|
| • <i>Algorithm Analysis & Development</i> (CPSC 200) | • <i>Intro/Advanced Database Systems</i> (CPSC 324 & 482) |
| • <i>Data Structures I & II</i> (CPSC 281 & 482) | • <i>Applied Machine Learning</i> (CPSC 499) |
| • <i>Software Engineering</i> (CPSC 300) | • <i>Introduction to Data Mining</i> (CPSC 473) |

SKILLS

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|----------------------|-----------------------------|---------------------------|
| • C++, Java, Python | • .NET Core, Angular, Git | • Excellent communication |
| • HTML, CSS, JS | • Jupyter, Google Colab | and organizational skills |
| • NodeJS, PostgreSQL | • TensorFlow, sci-kit learn | • Works well with a team |