Nathan Lum

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LINKS

GitHub: NathanTL9
LinkedIn: Nathan Lum
Portfolio website: Link

EDUCATION

UNIVERSITY OF CALGARY
Bachelor of Science in Computer Science
June 2025

COURSEWORK

UNDERGRADUATE

Human-Computer Interaction
Algorithms and Data Structures
Information Visualization
Visualization and Analytics
Principles of Computer Security

SKILLS

LANGUAGES
Python • Java • C++ • HTML • CSS • JavaScript • LATEX

TOOLS AND FRAMEWORKS
• Django, React, Tensorflow, Git

WORK EXPERIENCE

RACQUET CENTRE STAFF | University of Calgary Racquet Centre
September 2018 - Present | Calgary, AB

- Worked as a staff and instructor at the University of Calgary's Racquet Centre
- Maintained facility cleanliness and safety, assisted with coaching during junior/adult lessons, and onboarded new staff with on-the-job shadowing
- Provided a perfect environment for players to enjoy and learn the sports of squash, racquetball, and pickleball

SUMMER RACQUET CAMP LEADER | University of Calgary Racquet Centre
July 2018 – Aug 2018, July 2019 – Aug 2019, July 2022 – Aug 2022 | Calgary, AB

- Worked with other camp leaders to plan, organize, and execute daily activities, lesson plans, and recreational games in squash, racquetball, tennis and badminton for camps of various ages (6-16 years old)
- Developed weekly lesson plans catered to each camp age group and managed day-to-day logistics for camp activities and staff breaks
- Actively worked with parents and their children to provide the best camp experience for everyone

PROJECTS

INFOFLUX | INFORMATION KIOSK SYSTEM (HTML, CSS, JAVASCRIPT, C#) | University Group Project

- A proof of concept for an information kiosk system designed for downtown Calgary to eliminate the need for and to build upon alternatives such as brochures, pamphlets, and websites
- Designed and implemented the main layout for each screen using Figma for the mockup and HTML, CSS, and Javascript for the working prototype
- Developed a working kiosk system with several features including an interactive map, tab navigation, filters, time and live weather forecast

TAIPANCLONE (JAVA) | University Group Project

- Rendition of the 1979 turn-based strategy computer game Taipan!
- Designed the starting GUI using JavaFX Scene Builder and programmed the logic for the initialization process for starting a new run using Java
- Implemented the starting sequence for a new run in TaipanClone, resetting the game so that the player has the correct amount of resources and starts in the correct location

UNIVERSITY CLUB FINDER (PYTHON, HTML, CSS, DJANGO) | University Group Project

- A club finder for universities all across Canada.
- Designed and implemented various pages and their features using HTML and CSS then connected them to our database using Python and Django
- Developed a mobile-friendly website with a database for students to create profiles, clubs, events and announcements