

SHUSHAWN SAHA

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TECHNICAL SKILLS

Languages: JavaScript, Python, Java, C/C++, HTML/CSS, SQL

Technologies/Tools: MySQL, React.js, jQuery, AJAX, Bootstrap, Material UI, Git, VS Code

PROJECTS

WCSS Peer Evaluator - *Full-Stack Web-App That Allows Group Members to Equitably Evaluate Each Other*

- Developed a clean interface with **PHP/JS** that dynamically shows students their associated teams and projects
- Constructed pages where students rate each other, using Highchart and Bootstrap for the frontend along with **AJAX** and **MySQL** for database interaction
- Produced a feature using JSON/jQuery that requests data from the backend to formulate a spreadsheet of class details
- Deployed at West Carleton SS by **over 1300** students due to its creative UI and efficient code

NHL Discord Bot - *Chat Bot That Connects with the NHL API and Provides Users with Statistical Data Within Discord*

- Built using **Python** asynchronous functions that perform HTTP requests from the API, while using Git for collaboration
- Parsed and re-organized JSON response to show on detailed and organized embeds that allow user to easily view data
- Produced 8 commands that request over 20,000 pieces of data giving user access to a wide variety of statistics

Crazy Eights Game - *Allows Users to Play Crazy Eights Within the Console*

- Created a **Java** program that allows users to play against 5 automated players after self-learning the language
- Took initiative to self-learn OOP principles and iteratively applied them to re-design the program

ATM Machine - *Program Allows Individuals to Access Bank Account Information and Make Transactions*

- Developed a **C application** with 6 banking functionalities that stores 100+ users' activities to teach basic banking
- Stored data using linked lists allowing users to easily view transaction history in reverse chronological order

WORK EXPERIENCE

Assistant Teacher – *Spirit of Math Schools*

Sept. 2017 – Jun. 2021

- Clearly explained advanced math concepts to over 300 students through both in-person and online forums
- Prioritized aiding struggling individuals through developing meaningful interpersonal bonds to maintain a 98% pass rate among all classes
- Endorsed for **3 contract renewals** by 10+ staff for my continuous drive and dedication for excellence

Camp Counsellor/Program Leader – *City of Ottawa*

Jun. 2019 – Mar. 2020

- Collaborated with 15+ counsellors to plan activities and schedules that never overlapped with other camps
- Responded to multiple conflicts among campers simultaneously and noticed by management for ability to remain calm

LEADERSHIP

Organizer - *Teacher's vs. Students Basketball Buyout*

- Pioneered the first ever basketball buyout at West Carleton SS by working with 2 fellow organizers and administration
- Event sold out in 5 minutes, raised the 2nd most funds for Movember in Canada and is now an annual school event

Organizational Executive - *Battle of The Grades*

- Organized unique virtual game shows to better students' well-being during COVID-19 allowing for 1,200+ viewers
- The success of the virtual events led to them occurring on the school-board wide spirit week with over **25,000** students

EDUCATION

University of Waterloo – *Candidate for BAsC: Systems Design Engineering*

Sept. 2021 – Present