

- **Languages:** JavaScript, C++, Python, Java, SQL, HTML, CSS
- **Libraries/Frameworks:** React, React Hooks, React Router, Bootstrap, Express.js, React Native
- **Other:** Node.js, MongoDB, Git, React Context, Postman, Selenium WebDriver, Android Studio, PostgreSQL

Work Experience

Software Developer in Test – YuJa

January 2020 - April 2020

Selenium WebDriver, Java, TestNG, Jira, TestRail

- Executed automation tests using **Selenium WebDriver** with **Java** and **TestNG** to verify site functionality for YuJa, a media solutions platform designed for use by educational institutions and enterprises, reducing the time required to complete test cases by **10%**.
- Performed analysis and reporting on **more than 500 Jira tickets** regarding ongoing web, desktop, and mobile application systems.
- Recommended design and functionality aspects for web and mobile application features during daily SCRUM meetings based on client needs, primarily for the YuJa video-conferencing application.
- Documented and updated test cases in **TestRail** to ensure consistency in the testing process for current and future developers.

Projects & Activities

Flicker – flickerapp.herokuapp.com; github.com/williamhpark/movie-tinder

December 2020 - Present

React, React Hooks, React Router, React Context, Node.js, Express.js, MongoDB, Socket.io, JavaScript, HTML, CSS

- Designed and deployed a web application that makes the process of choosing a show or movie on Netflix with a group of people more efficient through Tinder-esque selection sessions.
- Championed the development of the application's front end, establishing an interactive UI using **React** and styling with the mobile-first approach using **CSS Media Queries** for responsive web design across all devices.
- Architected an internal API with **Node.js** to validate user authentication and to provide a channel for the front end to access user/show data stored in **MongoDB** collections through HTTP requests.
- Reviewed **over 50 pull requests** on **Github** to restructure inefficiencies and enforce a standardized programming style.

AlgoRacer – algoracer.herokuapp.com; github.com/williamhpark/AlgoRacer

February 2021

React, React Hooks, JavaScript, HTML, CSS

- Created a sorting algorithm visualizer using **React** to compare the efficiency of a variety of recursive and non-recursive sorting algorithms implemented in **JavaScript**, including merge, bubble, selection, and insertion sort.
- Incorporated **React Hooks** to monitor and manipulate component state and lifecycle while the web application is running.

Resto Bot (Hack the North 2020++) – devpost.com/software/resto-bot

January 2021

Node.js, Express.js, MongoDB, Wit.ai, Facebook Send API, JavaScript

- Developed an automated Facebook messenger chat bot with natural language processing support using **Wit.ai** to help groups decide on a restaurant to dine at together. **Finalist** in the **Best Use of Facebook API** category.
- Configured **webhooks** to establish a communication protocol between the application's **Node.js** server and the **Send API**, and handled payloads sent through webhooks using **JavaScript** to send appropriate callbacks in response to user-to-bot interactions.

Club President – KidSport PMSS

September 2016 - July 2019

- Lead a group of **25 club members** in organizing fundraisers and awareness events to provide grants for underprivileged youth who do not have the financial resources to participate in organized sports.
- Assembled sub-teams to manage specific tasks during events, and oversaw all sub-team activities throughout the event-organization and -execution processes to assure budget management and adherence to the project timeline.

Education

University of Waterloo – Waterloo, ON

September 2019 - Present

Candidate for BAsC in Computer Engineering

- **President's Scholarship of Distinction:** Awarded to students with an admission average of 95% or higher.
- **Nortel Networks Undergraduate Scholarship:** Awarded to outstanding students entering year one of electrical and computer engineering.