Harris Chong

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EDUCATION

University of Toronto   Toronto, Canada
Bachelor of Science in Computer Science   *Sep. 2021 – May 2025*

TECHNICAL SKILLS

Languages: Python, C, Java, Javascript, Typescript, HTML/CSS
Frameworks: React, Node.js, Bootstrap, Express.js, axios, PRAW, pandas, CORS, React-Router-Dom
Developer Tools: Git, VS Code, Wing, Eclipse, Slack
Backend: MongoDB

PROJECTS

Job Application Manager | *github.com/Job-Application-Manager*
- Developed a full stack CRUD application using **MongoDB, Express, React,** and **Node** that allows you to track and manage applications efficiently
- Integrated **CORS** as middleware into the server to grant API requests access to routes from a port
- Implemented **REST API** using **axios** to make API calls with HTTP methods POST, GET, DELETE, and PUT
- Built the frontend with components from **Bootstrap**, also implemented routing using **React-router-dom**
- Designed a database schema which organized the data stored in objects created

AI Crypto Webscraper | *github.com/Crypto-Webscraper*
- Assembled a web scraper using **Python** to parse through and structure data from the r/CryptoCurrency subreddit
- Utilized **PRAW** to provide access to Reddit's API, accessing **100+** posts in the subreddit's top weekly data
- Implemented a sentiment analysis algorithm which categorized the data into positive and negative subgroups, resulting in an **80%** cut of financial losses
- Built a schema for each parsed post using **pandas** to format and export the analyzed data into separate .csv files, reducing regular analyzing time by **50%**

Bloons Tower Defense | *github.com/Bloons-Tower-Defense*
- Programmed a Bloons Tower Defense game in **Java** with multiple different maps and levels
- Integrated **OOP** concepts like Encapsulation, Inheritance, and Polymorphism for different bloon and map classes
- Implemented a user friendly **GUI** and a customizable map/level system for creators using **Java Swing**

UofT Shortcuts Chrome Extension | *github.com/UofT-Chrome-Extension*
- Developed a browser web extension with Google developer tools using **HTML** and **CSS** which allows easy and organized access to important University of Toronto resources

Portfolio Website | *github.com/Website*
- Developed a personal front-end web application using **Javascript, HTML,** and **CSS** with **React**, and implemented page routing using **React-router-dom**

EXPERIENCE

Microart Services Inc.   Markham, Canada
QA Engineer Intern   *Sep. 2019 – Jan 2020*
- Standardized hardware/firmware of car parts by running performance assessment and QA software efficiently, exceeding testing quota by **100+** units
- Developed a program on a **Raspberry Pi 4** and **Arduino** using **Python** to test rotation of miniature motor parts, reducing overall execution time by **50%**
- Coordinated with a small team of 4-5 people to program blank micro-controllers and PCB, assembling **50+** production ready units per day