

Justin Ding

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EDUCATION

University of Toronto Scarborough

Scarborough, ON, CA

Honors Bachelor of Science in Computer Science and Statistics(Co-Op) - GPA: 3.3/4.0 Sep 2019 – Dec 2023

- Relevant Coursework: Databases and Web Applications, Introduction to Software Engineering, Design and Analysis of Data Structures, Software Design, Software Tools and Systems Programming (UNIX), Human-Computer Interaction, and Probability Theory

EXPERIENCE

Office of the Superintendent of Financial Institutions

Jan 2022 – Present

Full Stack Developer Intern

Ottawa, ON, CA

- **Fully automated** the table creation process that would take **8 minutes** on average using HTML/CSS/JavaScript to parse CSV files into a SharePoint table that adheres to WCAG accessibility guidelines
- Secured contents of website, allowing team members to test confidential web pages, by using HTML/CSS/JavaScript to randomize the contents while still preserving the structure and functionality of the page.
- Developed a link checker script that **fully automated** the link checking process that would take **10 minutes** on average, enabling team members to detect invalid links on web pages using JavaScript, and Node.js
- Developed a script that **fully automated** the process of getting all subsites and pages starting at the root of the website using Ajax and SharePoint REST API; this allowed team members to view the visual representation of the website tree structure
- Utilized the SharePoint framework and programming techniques such as regular expressions, dynamic programming, and graph algorithms to develop the scripts

Scholarly Elite Tutoring

May 2021 – Aug 2021

Digital Technologies Intern

Barrie, ON, CA

- Worked in a team of four to design and create learning materials in accordance with the Ontario mathematics curriculum using the LaTeX markup language.
- Led daily scrum meetings and participated in and sprint planning in accordance with the Agile Methodology

PROJECTS

Sports Activity Finder | *HTML/CSS, React.js, JavaScript, Flask, SQL, Bootstrap, Git, JIRA* Sep 2022 – Present

- Created a full stack website using three-tier architecture that enables users to find individuals to participate in their desired activities with, and communicate with their group members through a built in chat-application
- Implemented user-specific widgets for account registration/login/deletion, creating/joining groups based on skill level and location preferences, and custom group chat-application for every group
- Developed an activity search algorithm that enables users to filter groups for their desired activity based on their skill level, and their proximity from the group location.
- Followed the Agile Design Process in which details for the product backlog and sprints were tracked using JIRA, and project development strictly followed Git flow

Mock Command Terminal | *Java, Ubuntu*

Sep 2020 – Dec 2020

- Created a mock command terminal by simulating the Ubuntu command terminal using Java, which allows users to create and navigate through a mock file system
- Replicated the typical commands in a command line interface such as cd, ls, mv, rm, cat, pwd, mkdir, and echo
- Conducted unit testing, and followed the Agile Design Process

Grading Web Application | *HTML/CSS, JavaScript, Python Flask, SQL*

Jan 2021 – April 2021

- Created a website that allows instructors to add or modify grades, and students to view and submit regrade requests
- Implemented user-specific widgets for account creation/login, assignment feedback and grading, and remark requests using Python Flask and HTML/CSS
- Utilized SQL as the database for storing the types of users, marks, remark requests and any feedback associated with assignments

TECHNICAL SKILLS

Languages: JavaScript, HTML/CSS, Java, Python, C/C++, SQL, Neo4j, MongoDB, MATLAB, R

Frameworks/Libraries: Python Flask, SharePoint, jQuery, React.js, Bootstrap, Node.js

Developer Tools: Git, JIRA, SVN, Linux, Visual Studio Code, Docker Desktop, IntelliJ