Richard Hua

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Education

University of Waterloo September 2020 – Present
Honours Bachelor of Computer Science

- **Overall GPA:** 83.91 / 100
- **Programming Coursework:** Algorithm Design and Data Abstraction, Functional Programs, Object Oriented Software Development, Logic and Computation
- **Clubs:** University of Waterloo Formula Motorsports, Electronics Sub-team

Employment

Huawei Technologies Canada May 2021 – August 2021
Assistant Engineer, Intern

- Worked on the open-source data engine openLooKeng.
- Overhauled automated testing programs written in Java. Implemented more rigorous testing methods of the Distributed Snapshot feature. Added support for testing of concurrent queries.
- Implemented a warning message for Query retries and Distributed Snapshot feature. Removed deprecated features and resolved several bugs.
- Reproduced and documented issues from Quality Assurance. Performed verification and validation testing and documented newfound issues.
- Leveraged knowledge: Git, programming Java in remote server using IntelliJ IDEA, Linux, and Bash Scripting

Software Projects

Portfolio Website

- Personal portfolio made exclusively with HTML/CSS and JavaScript. Custom front-end design using flexbox and icons from FontAwesome.
- Responsive site with three main views designed for Desktop, Tablet, and Mobile.
- Four main color themes which is user selected or generated at random and native dark mode available.
- Implemented project showcase with sort using JavaScript and Document Object Model Manipulation.
- Utilized: HTML/CSS, JavaScript. Available at: https://rhua.online/

inStock (for Nike)

- Web app built using flask, selenium, and beautiful soup in Python to aid in the tracking of Nike products.
- A user chooses a selection of products from the Nike site by inputting the product links, and the application will scrape the Nike site and return information about the product stock and available sizes. Especially useful for tracking large amounts of Nike products at a time.
- Utilized: Python, Selenium, Flask, BS4 (Beautiful Soup 4)

find (for Spotify)

- A small application built to simplify searching for podcasts within Spotify
- Custom text-based command interpreter which allows for more natural searching using connectives such as “and”, “or” etc.
- A user may wish to search for “nature and tourism or safaris” by directly inputting the string into the search bar. Command interpreter implemented in JavaScript.
- Deployed HTML/CSS and JavaScript to build the user-interface.
- Utilized: HTML/CSS, JavaScript, Spotify API

Silver Screen

- Minimalistic application built to recommend movies of varying genres.
- Intuitive interface which permits a user to view previous, current, and next recommended film. A user may also view a short summary and relevant information of the highlighted film
- Utilized: HTML/CSS, JavaScript, Bootstrap, OMDB API, Node.js

Technical Skills

Software: C, C++, Python, HTML/CSS, JavaScript, Git, Java, Linux, Bash
Libraries: Bootstrap, Selenium, BS4 (Beautiful Soup 4), Node.js, Flask