Richard Hua

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https://github.com/hua0-richard   **https://rhua.netlify.app/**

Education

University of Waterloo   September 2020 – Present

Honours Bachelor of Computer Science

- **Overall GPA:** 84.44 / 100
- **Programming Coursework:** Algorithm Design and Data Abstraction, Functional Programs, Object Oriented Software Development, Data Structures and Data Management, Foundations of Sequential Programs
- **Clubs:** University of Waterloo Formula Motorsports, Electronics Sub-team

Employment

Marsh McLennan   Jan 2022 – April 2022

Software Developer

- Developed Internal Corporate Applications Portal used by 80 000 employees globally.
- Complete implementation of multiple webpages using MEAN stack (MongoDB, Express, Angular, Node.js). Created APIs for Administrator Panel (Notifications, Support Emails, Configurable URLs).
- Built re-usable user interface components in Angular. Worked with UI/UX designers in Figma to implement new pages and user interface components. Introduced Jest testing framework.
- Led team which developed full stack application using Electron for Marsh McLennan's internal hackathon. Used MongoDB, Express, and Node.js for the backend. Used DOM and Electron APIs for the frontend.
- Followed Agile development cycle and resolved issues/bugs, implemented new features in each sprint. Led daily scrum meetings and facilitated in communications with product owners and functional team.
- Leveraged knowledge: Angular, JavaScript, TypeScript, MongoDB, Express, Mongoose, Node.js, REST APIs, Electron, HTML/CSS, Swagger, Jest, Jira, Git, Docker.

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.netlify.app/**

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

Skills: C, C++, Python, HTML/CSS, JavaScript, TypeScript, Git, Java, Linux, Bash, Angular, MongoDB, Mongoose, Express, Node.js, Bootstrap, Selenium, BS4 (Beautiful Soup 4), Node.js, Flask