

Rick Huang

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EDUCATION

University of Waterloo

Bachelor of Applied Science in Mechatronics Engineering

Waterloo, ON

Sept 2023 – May 2028

- Relevant Courses: Digital Computation, Algorithms and Data Structures, Linear Algebra
- University of Waterloo President's Scholarship

TECHNICAL SKILLS

Languages: C++ · C · SQL · Python · HTML/CSS · JavaScript · ROBOTC

Frameworks & Libraries: React · Tailwind CSS · discord.js · Node

Developer Tools: Git · VS Code · SOLIDWORKS · AutoCAD · Figma

PROJECTS

BlueK | C · ROBOTC

Sept 2023 – Dec 2023

- Developed a fully functional robot that dynamically/algorithmically solved puzzles using **C** and **ROBOTC**
- Implemented user interaction and file input functionality, enabling users to customize board shapes and optimizing the start for the robot
- Refined algorithms for precise motor control, sensor interpretation, and strategic decision-making, improving puzzle-solving efficiency by **25%**

HotStockBot | discord.js · JavaScript · Node

Dec 2023

- Developed a finance Discord bot with **5 commands** that integrated a financial **REST API**
- Improved user experience with slash commands, integrated **autocomplete** for user guidance, **validation** to ensure accuracy, and implemented **error handling** for reliability
- Implemented a dynamic capability to fetch historical and real-time data for any stock

rickhuang.dev | HTML · CSS · JavaScript

Nov 2023

- Applied **Nielsen's usability heuristics**, including affordance, user control, consistency, flexibility, efficiency, and aesthetics, for a user-centered design approach
- Created fully **responsive** layouts that adapted to diverse screen sizes, ensuring an optimal user experience
- Selected an appropriate color scheme, typography, and created cover art using **Figma** to enhance visual clarity

EXPERIENCE

Web Developer

Sept 2023 – Present

Electrium Mobility

Waterloo, ON

- Proficiently debugged and resolved issues on the website using **HTML**, **Tailwind CSS**, and **gulp.js**
- Migrated code base to **GitHub** and introduced **Git** for version control and streamlining collaborative development processes
- Enhanced user experience and website functionality through the incorporation of optimized font colors, sizes, and integrated sponsor images

Kumon Assistant

May 2020 – Sept 2022

Kumon Institute of Education

Richmond Hill, ON

- Assisted students in comprehension of intricate concepts by breaking down complex topics into components
- Optimized study plans by tailoring study plans to individual students
- Managed front desk with a focus on customer service, multitasking, and maintaining a welcoming environment