Rick Huang

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EDUCATION

University of Waterloo   Waterloo, ON
Bachelor of Applied Science in Mechatronics Engineering   *Sept 2023 – May 2028*
- Relevant Courses: Digital Computation, Algorithms and Data Structures, Linear Algebra
- University of Waterloo President's Scholarship

EXPERIENCE

Web Developer   Waterloo, ON
Electrium Mobility   *Sept 2023 – Present*
- 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   Richmond Hill, ON
Kumon Institute of Education   *May 2020 – Sept 2022*
- 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

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, successfully reducing both the time taken to solve puzzles and the distance by which the robot missed the card

HotStockBot | *discord.js · JavaScript · Node*   Nov 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*   Dec 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

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