Rick Huang

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EDUCATION

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

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
- Successfully implemented Git for version control and streamlining collaborative development processes
- Demonstrated problem-solving skills and technical expertise to enhance website functionality and user experience

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
- Maintain upkeep of computers, classroom equipment, and 200 printers across campus

PROJECTS

BlueK | *ROBOTC* — Sept 2023 – Dec 2023
- Developed fully functional robot that solves puzzles using ROBOTC
- Implemented user interaction and file input to start the robot
- Designed and integrated sophisticated algorithms to enable precise motor control, sensor interpretation, and strategic decision-making

HotStockBot | *discord.js · Javascript*
- Developed a finance Discord bot that pulls data through a financial API
- Utilizes slash commands to be invoked, preventing the bot from activating in response to regular messages
- Implemented a dynamic capability to fetch historical and real-time data for any stock

rickhuang.dev | *HTML · CSS · Javascript*
- Applied Nielsen's usability heuristics, emphasizing affordance, user control, consistency, flexibility, efficiency, and aesthetic, in design implementations
- Fully responsive layouts that adapt to diverse screen sizes, ensuring an optimal user experience
- Selected an appropriate color scheme and typography, and created cover art using Figma to enhance visual appeal

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