

# Riley Huston

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## 🎓 EDUCATION

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**Bachelor of Science, Computer Science, Minor in User Experience Design (UX), Wilfrid Laurier University**

September 2019 –  
April 2023

## 📁 PROJECTS

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### **Portfolio Website, HTML | CSS | Javascript** [↗](#)

- Developed a website from scratch to gain further experience using HTML, CSS, and Javascript.
- Custom animations created using the Anime.js library.
- Protected against DDoS attacks by using the Cloudflare network.
- Hosted on GitHub Pages and is available to the public.

### **N-Queens Solver, HTML | CSS | Javascript | React** [↗](#)

- A tool that can be used to solve and visualize the N-Queens problem using CSP Consistency and Minimum Conflict algorithms.
- Visualizes each state generated by the program and shows all conflicts for a chosen queens column.
- Front-end built using the React JavaScript framework and CSS.

### **School System Database Implementation, PHP | Bootstrap | Apache | Docker** [↗](#)

- Designed a Database based on a school system along with 3 other team members.
- Implemented a frontend system using bootstrap that allows users to add, edit, or remove database entries.
- Backend developed in PHP and prevents malicious inputs by using sanitization and prepared SQL statements.
- Database and website hosted locally using a Docker container with Apache.

### **Sorting Visualizer, HTML | CSS | Javascript | Vue** [↗](#)

- A tool that can be used to visualize 6 common sorting algorithms such as bubble, merge, and heap sort.
- User can alter the size of the array and speed of the sorting within the ranges 1 to 250 and 1ms to 100ms respectively.
- Front-end built using the Vue Javascript framework and CSS.

## { } LANGUAGES

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Python • C • C++ • C# • Java • JavaScript • HTML • CSS • PHP

## </> TECHNOLOGIES

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Git • Node.js • React • Vue • Vite • Unix / Linux • Apache • Docker