



RONALD WOOD

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Summary

As a Computer Science graduate, I have developed a strong foundation in software engineering principles and cultivated problem-solving skills. With a focus on teamwork and adaptability, I look forward to contributing to a forward-thinking organization by applying my technical knowledge and enthusiasm for learning new technologies.

Skills

- HTML/CSS/Javascript
- C/C++/C#
- Python
- Java
- Haskell
- MySQL
- Linux, Windows OS, Mac OS
- Node.js
- React.js
- D3.js
- Git
- Docker
- Google Cloud

Education

University of Connecticut | Storrs, CT

Bachelor of Science in Computer Science And Engineering

05/2023

- Concentration in Software Engineering
- [Spring 2021] - Dean's List
- Relevant Courses: Data Structures, Object Oriented Design, Algorithms and Complexity, Cybersecurity, Databases, Software Engineering, Artificial Intelligence, Operating Systems, Functional Programming, Digital Logic Design, Computer Architecture

Projects

Custom Programming Language Development

<https://quickstart-image-yogrloifxq-uc.a.run.app>

- **Designed a Unique Programming Language:** Developed the syntax and semantics with clear design principles, delivering a fresh perspective on programming constructs and expression.
- **Compiler Construction:** Implemented a compiler in C that translates high-level language code into RISC-V assembly instructions.
- **Cloud Deployment:** Packaged the development environment within a Docker container, integrated with a custom Jupyter Notebook kernel.
- **Hosting:** Hosted the containerized environment on Google Cloud Platform for easy access and collaboration.

Search Algorithm Visualizer

<https://raw1218.github.io/SearchAlgorithmWebApp/>

- **Dynamic Web Application:** Designed and developed a dynamic web application using React.js to visualize search algorithms with various graph representations.
- **Advanced Graph Visualization:** Employed D3.js to implement a particle force simulation, bringing the graph to life.
- **Optimized React Components:** Created efficient, functional React components with hooks to ensure optimal rendering and improved user experience of the application's interactive features

University Senior Project: Food Truck App

Client: Reality Interactive

- **Mobile Ordering System:** Developed a food truck application that allows users to place orders from their mobile devices.
- **Server and Database Architecture:** Designed and implemented the server and database architecture, which enables communication between the app and the food truck's device.
- **Full-stack Development:** Developed both the front-end and back-end components of the server and app.
- **Team Collaboration:** Collaborated with a team to deliver a high-quality user experience.
- **Client Interaction:** Worked closely with the client, Reality Interactive, to understand their needs and preferences through regular meetings.

Experience

University of Connecticut | Storrs, CT

ITS Accessibility Worker

12/2021 - 05/2023

- Utilized Adobe Acrobat and other tools to modify websites, slideshows, and PDFs, making them more accessible according to WCAG guidelines.

Upwork.com

Freelancing Programmer

01/2020 - 09/2021

- Tackled various projects such as web scraping and creating bots
- Through my skill set, I was able to effectively deliver solutions that met the unique needs of each contract.