

# DARRYL ABBATE

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## EDUCATION

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**University of New Orleans** · *New Orleans, LA*

*Graduated May 2021*

Bachelor of Science in Computer Science, *summa cum laude* (GPA 3.96/4.0)

## SKILLS

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**Tools/Languages:** C, Git, Assembly, Java, Python, Perl, Lua, Shell, HTML/CSS, JavaScript, WebAssembly

**CS Interests:** Human-computer interaction, Compilers, Programming languages

## PROJECTS

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**Riff** · Programming language · [Website](#) · [GitHub](#)

- Designed and implemented a bytecode interpreter and virtual machine in C.
- Utilized WebAssembly to implement an online “playground,” allowing Riff programs to be executed directly in the browser.

**XCV** · Web application · [Website](#) · [GitHub](#)

- Implemented a single-page application that allows users to save and share text data without the use of a backend database.
- Text data is LZMA compressed and Base64 encoded as an anchor link to create sharable URLs.
- Upon opening a sharable URL, anchor links are Base64 decoded and decompressed, revealing the original text data.

## EXPERIENCE

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**Private Tutor** · Varsity Tutors · *Online/Contract*

*Jan. 2020 – Present*

- Tutored high school and undergraduate computer science students in programming and software design courses.
- Students have seen an improvement of at least one letter grade during their semester.

**Student Intern** · Entergy · *New Orleans, LA*

*Oct. 2018 – Aug. 2019*

- Developed a process automation solution for configuring power plant software.
- Regularly collaborated with team members and outside contractors on various projects, both remotely and locally.

*References available upon request*