Tyler J. Ferrari

A dedicated software engineer with a passion for front-end design

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Objective: Seeking a fall or spring CO-OP position in software engineering and development

EDUCATION

B.S. in Software Engineering, Rochester Institute of Technology   May 2028

SKILLS

Programming Languages: Java, C, C++, C#, HTML, React, Angular, CSS, JS, PHP, Rust, SQL
Other Skills: Git, Trello, Slack | Linux, Windows, Android, MacOS

PROJECTS

Beyond the Bar, Class Project   August 2023 - Present
- The default browser bookmark and new tab pages are not customizable, lack utility, and not ergonomic. Worked on a team of 3, to create a new tab page that pulls the user's bookmarks and displays them in a visually appealing, customizable format.
- Designed and documented components to represent the bookmarks in a flexible manner.
- Documented class/object diagram and basic API-based data model.
- Implemented via an iterative model with 4 major deliverables over several months.

Rhythm Game, Personal Project   May 2023 - Present
- Worked in a team of three to develop a fully featured rhythm game with a modular level system and a built in level editor
- Leveraged JavaFX to build a sophisticated and elegant GUI
- Implemented a system to read, write and validate JSON files for stored level data and settings
- Used Maven, Jlink and Jpackage to automatically create installers and portable executables for all major desktop platforms

Farfalle Web Browser, Personal Project   October 2023 - Present
- Designed a concept desktop web browser featuring a tab overview screen with thumbnails, instead of a standard tab bar
- Developed a working prototype that is capable of storing site data and displaying complex websites
- Constructed using Rust, GTK4 and the WebKit rendering engine

betterLibrary, Personal Project   September 2023 - March 2024
- Created a modification to the Spotify desktop app that makes the library behave more intuitively by allowing the user to click on the library icon to view the library in the center of the screen
- Utilized the Spicetify API to inject Javascript and CSS into the Spotify client

WORK EXPERIENCE

Website Design and Development   March 2024 - May 2024
- Worked with a client to reimplement and modernize neglected blog and ecommerce websites
- Created custom themes, icons and banners to form an identity that reflects her brands
- Converted both websites from the BeaverBuilder extension to the built-in Wordpress Gutenberg block editor so that she could create complex pages herself