

Robert French

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Portfolio • robertfrench.work

EDUCATION

University of South Florida – Bachelors in Computer Engineering

Expected 2028

- National Merit Scholar
- Dean's List, Fall 2025
- Member of USF's IEEE-CS Branch

SKILLS

Coding Languages: React.js, Express.js, C++, Python, QtQuick, HTML, CSS, JavaScript

Other Expertise: Docker and Podman, Application Programming, Web Development

Soft Skills: Team Leadership, Communication, Collaboration

EXPERIENCE

OPS Student Assistant at USF | *Backend Web Developer* | Remote

May 2026 – August 2026

- Architected robust server-side authentication and authorization protocols using JWT cookies
- Reduced attack surface by proactively identifying and fixing vulnerabilities in dependencies
- Enhanced the login experience with OAuth2 support for Canvas LMS
- Increased reliability by writing and integrating Docker-compose and Dockerfiles for server hosting

The Global Career Accelerator | *HTML & CSS & JavaScript Trainee* | Remote

June 2025 – July 2025

- Used HTML, CSS, Bootstrap, and JavaScript to create dynamic web applications, games, and other interactive, fully-functioning web experiences
- Improved, redesigned, and added features to existing coding projects
- Troubleshooted and debugged code written by myself and others, reducing technical debt
- Integrated features utilizing third-party application programming interfaces (APIs) in web applications

PROJECTS

Bazzite Updater

Started Development December 2025

- Responsive GUI/CLI System Update application in C++, QtQuick, and Kirigami for Linux
- Maximized support for various Linux systems by abstracting many features into a simple config file
- Used SDL3 to implement controller support, ensuring a smooth experience for a large target audience of Bazzite
- Contributed new features to upstream programs, such as adding a non-interactive way to invoke a system rollback in bazzite-rollback-helper

Portfolio Website

Overhauled February 2026

- Vastly increased development speed and maintainability by using Github Actions to automate deployments and by refactoring standard html/css/js into React components
- Maximized performance through NextJS Static Site Generation to improve SEO and the user experience
- Deployed to robertfrench.work using Cloudflare to further increase site reach
- Rapidly developed excellent support for light/dark themes, tab-navigation, and more

USF HackJam 2025 | Worst UI Design Category - 1st Place | In-Person

November 22, 2025

- Earned first-place in the category for worst-designed login screen
- Worked efficiently with my team under tight time restrictions to maximize important features
- Utilized knowledge of good UI design to effectively create the total opposite: buttons that avoid the mouse, Old-English labels, and a differential equation CAPTCHA

GCA - L'Oréal Secure AI Assistant

Completed July 2025

- Created an AI-powered L'Oréal product assistant for the Global Career Accelerator
- Used Cloudflare Workers to securely access the OpenAI API
- Effectively utilized L'Oréal brand colors and style
- Defined strict rules to ensure the assistant would never go off-topic
- Stored user selections in the browser's LocalStorage for convenience when re-visiting

GCA - Responsive Intel Timeline

Completed July 2025

- Developed an interactive website for the Global Career Accelerator showcasing Intel's history
- 100% Accessibility score on Google Lighthouse demonstrates commitment to accessibility
- Designed from the beginning to ensure support for any device form factor, right-to-left languages, and accessibility tools like screen readers
- Utilized well-established libraries such as Bootstrap to ensure maintainable code

ScopeBuddy GUI

Started Development June 2025

- Designed a graphical user interface with QtWidgets for the ScopeBuddy program, providing a simple way for users to store and activate environment variables and launch options for Linux software
- Published the app on [Flathub](https://flathub.org), the app store for Linux, to maximize user reach
- Developed a [website](#) that documents the relevant software, and includes a web-native version of the application
- Featured on the front page of the app store in Bazzite Linux for greatly enhancing the experience for many users
- Collaborated on feature planning for the GUI and command-line program with the original developer of ScopeBuddy

USF – Engineering Lab Arduino Robot

Completed December 2024

- Constructed and developed an Arduino robot for use in Elementary School classrooms, enhancing the interest of young learners in engineering
- Tackled technical hardware challenges under a strict budget, producing a fully-featured Arduino robot for under \$60
- Worked smoothly as the Hardware Lead with a team of colleagues, solving hardware and design problems throughout the design process
- Designed around the target audience's interests and safety requirements, carefully considering the robots environment to maximize its lifespan
- Presented the robot to colleagues and professors, raising interest in our product design