

ALEX HILLER

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[PORTFOLIO](#)

[GITHUB](#)

[LINKEDIN](#)

SKILLS

Programming: React, Redux, Python, Flask, Sequelize, Javascript, HTML, CSS, SQL, Git

Lab Techniques: Spectroscopy: UV-Vis, IR, Fluorescence, NMR, MS; HPLC Chromatography; Reagent and Working Solution Prep; Safe Handling of Strong Acids and Toxic Chemicals; Waste Handling and Management

PROJECTS

CARD GAME APP (Python, Flask, ReactJS, Javascript)

[live](#) | [github](#)

A React application with Python backend allowing users to log in and play War and other card games online

- Seamlessly integrated JavaScript, CSS, and React together to perform complex functions under the hood utilizing deceptively simple UI.
- Utilized localStorage extensively to allow movement throughout the site while ensuring user selections and state persist.

HOMECOOKED GROUP PROJECT (Python, Flask, ReactJS)

[live](#) | [github](#)

An app where users can order food from local cooks or become restaurateurs themselves, with React frontend and Python backend.

- Implemented a fully functional and dynamic Cart page that remained persistent throughout the site using the React Persist library
- Designed the site's logo and drew up the wireframes later used to develop the website's layout and design choices
- Helped coordinate group efforts to ensure development was efficient and interference between partners was minimal

SOUNDCLOUD CLONE (Javascript, Sequelize, ReactJS)

[live](#) | [github](#)

A simple clone of Soundcloud utilizing Express and React.

- Developed a music player to play hosted audio files.
- Built familiarity with AWS and file hosting in general

NODE BLACKJACK (Javascript, NodeJs)

[github](#)

A full-fledged blackjack game made with JavaScript that runs entirely in the terminal.

- Utilized extensive class-based architecture to handle all elements of gameplay, from player instances to the cards themselves.
- Enabled local multiplayer gameplay through use of classes and terminal commands, as well as extensive replayability

UNDERGRADUATE RESEARCH WITH DR. JESSE MARCUM

Framingham State University | Fall 2017 - Spring 2018

Studied photodecomposition of tetrachloroaurate in the presence of varied alcohol solvents

- Prepared samples for analysis
- Analyzed samples via UV-Visible Spectrometry
- Presented findings at a scientific conference between fellow students

EXPERIENCE

Field Engineer

Research Scientific Services

Nov 2020 - Nov 2021

- Performed maintenance and refurbishment on Mass Spectrometers
- Shipped Mass Spectrometer parts to other engineers throughout the United States as needed
- Configured computers to work with Mass Spectrometry software
- Managed and accounted for warehouse inventory

Lab Technician

21st Century Biochemicals

Feb 2020 - Nov 2020

- Utilized strong acid and toxic chemicals to cleave peptides that had completed synthesis
- Handled waste, prepared reagents, and logged and dispensed chemicals for use in the lab
- Cleaned glassware and performed other tasks to aid coworkers during downtime

EDUCATION

Web Development - *App Academy* | 2022 - 2023

BS Education - *Framingham State University* | 2014 - 2019