Alexis Danz

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Work Experience

Business Hermetics
Freelance Web Developer — 03/2021 – Present

- Creating a website for Business Hermetics using Gatsby.js, Bulma CSS and a headless CMS to allow owner ease of use and publishing of articles. Hosted project on Netlify with a domain redirect.
- Implemented a search, filter, and social share functions. Provided cookie list analytics and printing article pages as a PDF. Ensured accessibility with color contrast checker, Google lighthouse, and ARIA roles.

Scherrer Lab
Computational Research Assistant — 05/2020 – 09/2020

- Analyzed approximately 100 genome sequences in R and utilized calcium imaging to research the impact of opioid usage on the brain.
- Interpreted the connection between opioid usage and the anatomical structures of the brain by methods of brain tissue analysis and fMRI imaging.

UNC Emergency Department
Medical Scribe — 09/2019 – 04/2020

- Wrote approximately 100 patient encounter notes per shift and conferred with consulting physicians/specialty services for patient disposition. Navigated and worked within the Epic electronic medical record system.
- Interpreted lab values and imaging results, resulting in a differential diagnosis and treatment plan. Assisted with emergency medical procedures and overall care.

Hugh Kaul Precision Medicine Institute
Research Intern — 09/2019 – 05/2020

- Worked on seven patient case reports who struggled with rare genetic disorders. Interacted with the patient and their family as an in-between the physicians and computer scientists.
- Helped improve the in-house software of Medikanren and Minikanren by methods of UI and UX improvements in Racket -- strategic color and texture utilization, typography for hierarchy and clarity, padded block links, and typesetting buttons.

Extracurricular Activities

UNC Game Development Club
Vice President — 06/2020 – Present

- Provided leadership over a club with approximately 50 members. Organized weekly club meetings, competitions, and interacted with the university system to grant funding.
- Organized UNC Global Game Jam, an annual distributed game jam for approximately 150 participants.

CS + Social Good
Member — 10/2019 – Present

- Helped local animal rescue shelters with photo shoots for available animals.
- Built functional and easy-to-use websites for various local shelters to provide pertinent information and showcase the animals available for adoption.
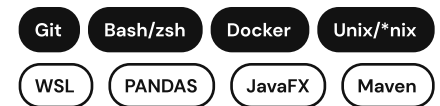
Education

University of North Carolina at Chapel Hill
Computer Science (B.S.) with minors in German and Statistics.
GPA: 3.87

08/2019 – 05/2022

Skills

Frameworks

Git Bash/zsh Docker Unix/*nix WSL PANDAS JavaFX Maven

Tools

Java JavaScript Python C MATLAB Racket R HTML/CSS

Ask me about

2048 AI Player
Python program that utilizes the expectiminimax algorithm and alpha-beta pruning to create an adversarial search agent to play the 2048 puzzle game.

Sunset Chaser
Utilizing the OpenWeatherAPI and a mathematic equation to factor various weather components to calculate how vivid a sunset will be.

NotifyMe
JavaScript program that parsed the North Carolina vaccination appointment website using JSDOM at a set interval to provide notifications for available appointments to healthcare workers.

ML Book Recommender
Currently working on a machine learning algorithm with logistic regression and data tree learning to provide accurate book recommendations.