

# Alexis Danz

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📍 Chapel Hill, NC

## // Work Experience

### Freelance Software Engineer

03/2021 – Present

Project-Independent Contractor

- Currently working on a Goodreads alternative. Building an API using OpenLibrary, a machine learning recommendation algorithm, social share functions, and a firebase authorization framework.
- Creating a website for a business 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.

### Scherrer Lab

05/2020 – 09/2020

Computational Research Assistant

- 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

09/2018 – 04/2020

Medical Scribe

- 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

09/2019 – 05/2020

Research Intern

- 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

06/2020 – Present

Vice President

- 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

10/2019 – Present

Member

- 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.)

08/2019 – 05/2022

## // Skills

Frameworks



Tools



## // Ask me about

### Thermocoagulator Simulator App

Published android app on the Google Play store that allows health care professionals to train with a probe to treat and prevent cervical cancer. Created for a medical coalition to provide resource limited hospitals with opportunity to train with the probe prior to purchasing.

### 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.