GABRIEL BUXO

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EDUCATION

RIT, CS Major, Bachelors of Science

2021 —

- Software Engineering
- Computer Science 1 and 2
- Computer Science Theory
- Analysis of Algorithms
- Concepts of Parallel and Distributed Systems
- Discrete Mathematics
- Probability and Statistics
- Multivariable and Vector Calculus
- Differential Equations

PROJECTS

Portfolio Website

I made this website as a second resume to be able to show skills in design and webdev as well as show other Javascript projects and algorithms I have worked on. Here I have a boid simulation, a NEAT (Neuro Evolution of Augmented Topologies) evolutionary algorithm powering a set of neural networks to learn how to play a flappy bird clone all written from scratch, an A* pathfinding and soon a blog. I am very pleased to have this website to be able to show off my work and demonstrate some of my skills.

CRUD Todo App

Made a CRUD App for keeping track of various todo lists using svelte and a postgresql database. This app was also made to be an optimized progressive web app with offline usage in mind. I made this project while learning svelte. I am proud of features such as robust security, debouced api calls to limit spam and cost, and it being an offline available PWA that can be downloaded on pc and mobile.

From Scratch Neural Network

I made this project because I am passionate about AI and while I have made one in the past I wanted to upgrade its design to be more extendable. I did this by making atomic layers that are composable into larger layers all containing the same feedforward and backpropagate methods. In this project I got to apply object oriented principles.

Music Maker

In this project I made a command line interface for making songs written entirely in rust. In this project songs can be saved and loaded from a custom file format as well as exported as a wav file.

SKILLS

- Languages: Javascript, Typsescript, C, Java, Rust, Godot
- Tools: Docker, Redis, SQL, AWS, Puppeteer, Jest, Linux, Tailwind

EXTRACURRICULAR ACTIVITIES

Club Gymnastics

Casual practicioner of gymnasics for 4 year. I started my own student organization at RIT called gymnasics underground for students in club gymnastics that wanted to engage in extra practice.

Dungeons and Dragons Game Master

I have been lead multiple campaigns for DnD where I crafted careful and engaging naratives for large groups of player for countless hours of gameplay including a multi-year campaign.

ACHIEVEMENTS

- 1500 SAT
- 5/5 APs for Physics 1, Calc AB, Calc BC
- Merit Award for top .1% PSAT