

EXPERIENCE / PROJECTS

Dance Dance Revolution inspired AVR project

Used a breadboard, microcontroller, and Atmel Studio 7. Experience with wiring and coding in C for a *Dance Dance Revolution* game projected onto an LCD.

<https://drive.google.com/open?id=1yhQUjG8UPGmm7BxHoyuURRvKpivUWXFIWWqP6YENBIE>

Money Managing Application

Worked in a team, following a Scrum development cycle to create a web application for managing money. Used React and JavaScript for graphs of spending history and budgeting. Used Firebase for user authentication and as a database.

<https://github.com/jaeeee/Piggy-Bank>

Open Source Testing on Libgdx

Wrote tests in Java for Libgdx, an open source video game creation framework. Used jacoco and PIT to find and update inefficient tests and increase code coverage.

<https://github.com/JeremyTaraba/libgdx/tree/cs182test/gdx>

8-Puzzle Problem

Used the principles of Artificial Intelligence to solve the 8-puzzle problem invented by Noyes Palmer Chapman. Used algorithms such as A* with Euclidean Distance heuristic, A* with Misplaced Tile heuristic, and Uniform Cost Search.

https://github.com/JeremyTaraba/Project_In_AI/tree/master/Project1

Data Feature Selection

Classified 1000 data points based on their features and their nearest neighbor. Returned the most useful features needed to classify the data. This works by using a Nearest Neighbor Classifying algorithm, Forward Search and Backward Search Algorithm, and Leave-one-out Validator.

https://github.com/JeremyTaraba/Project_In_AI/tree/master/Project2

Personal Website

Planned, designed, and built my own personal website. Built with HTML, CSS, JavaScript, and Bootstrap and hosted on GitHub pages.

<https://jeremytaraba.github.io>

HOBBIES

In my free time I enjoy baking sweet treats for my family and friends, learning hip hop dance routines, and creating art in Photoshop.

EDUCATION

University of California, Riverside
Computer Science, B.S.

Expected Graduation: June 2021

GPA: 3.59

SKILLS

Proficient

C

C++

GIT

Windows

Familiar

HTML, CSS, JS,

Python, Java

Mac, Unix

Scrum

ACTIVITIES

Aerospace Systems of UCR

Spring 2019 – Present

Working with a team to program components in a rocket

UCR Programming Competition

February 2020

Worked in a team to solve timed coding problems against other teams

Operation Christmas Child

December 2019

Processed Christmas boxes to be sent out to third world countries

BCOE MESA School Programs

February 2019

Judged physics projects presented by Highschool students

Anaheim Evangelical Church

Summer 2018 & 2019

Vacation Bible School group leader and crafts leader

Vietnamese Alliance Youth

Summer 2017, 2018, 2019

Small Group leader and choreographed dance helper