Bennett Garcia

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github.com/ttenneb

PROJECTS

1st place, HackRU Fall 2019 Implemented N.E.A.T, a NeuroEvolutionary algorithm, to train neural networks through evolution. Applied the algorithm to an Asteroids-like game and trained a neural network to successfully avoid incoming projectiles.

Epidem.io Developed a web-based virus survival game using TypeScript, PIXI.js, Epxress.js, and Websockets. The server supports up to 75 players along with dozens of AI characters in each round.

Snail Measurement Tool Developed a web application using OpenCV for Civitello Biology Lab at Emory University. The application measures the size and number of snails in a series of images which accelerates data collection and improves accuracy for infectious disease research.

EDUCATION

Rutgers University, New Brunswick

September 2019 - May 2023

Double major in computer science (B.S.) and mathematics (B.S.)

Awarded position in Professor Tomasz Imielinski's Data Science Hall of Fame

SKILLS

Full-stack development: Javascript, Typescript, Node, React, Express, SQL

Data Science: Python, R, Scikit, Matplotlib

ML Engineering: NumPy, Pytorch, JAX

Misc: C, Java, Unix, Git, Docker, LaTex

EXPERIENCE

Oracle, Seattle, Washington—*Software Engineer Intern*

Compute Team, May 2022 - August 2022

Developed a new automated data collection system to **monitor** virtual machine usage to assist with future efficiency initiatives. Offered a full-time position after college.

Console Team, May 2021 - August 2021

Expanded and maintained a data analytics system that tracks and reports Oracle Cloud customers' console usage to enhance user experience.

CAIT lab, Rutgers University — *Lead Undergraduate Developer*

September 2021 - November 2022

Managed a 12-person team of undergraduate developers. Led the design and development of a computer vision application for cleaning video data using multiple machine-learning models. The application improves railroad safety by automatically validating video data to train a Y.O.L.O object detection model that identifies when pedestrians or vehicles trespass at railway intersections.

George Street Co-op, New Brunswick — *Director and Committee Chair*

September 2021 - Present

Appointed to serve on the Board of Directors and chair the Meeting and Elections Committee of a 50+year old grocery store cooperative, with over 125 members, serving a NJEDA-designated food desert. Leading the rewriting of the bylaws to increase democratic power and membership **engagement**.

The Coder School, Short Hills, NJ— *Code Coach*

December 2019 - January 2021

Taught coding classes of 1-10 students, from ages 7-17, using Scratch, Python, Java, and more. Developed lesson plans and recorded progress notes on individual students. Oversaw a team of four coaches.