Raymond T. Barrett

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28308 New Castle Road, Farmington Hills, MI 48331 | U.S. Citizen

Objective

Skilled computer programmer with a specialty for machine learning ideas and a focus on writing code that has computational cost in mind. Strengths include a drive and ambition to grow and learn. Additional experience working with many different programming languages such as MATLAB, C++, and python. Seeking an internship in the field of electrical or computer engineering for the summer of 2021.

Education

Georgia Institute of Technology | Atlanta, GA   August 2020 to date
Bachelor of Science in Electrical Engineering, GPA 0.00   Expected Graduation: May 2024

Western Reserve Academy | Hudson, OH   August 2017 - May 2020
Graduated *cum laude*, GPA 4.26

Skills

Programming:	Java, Python, C#, JavaScript, MATLAB, C++
Graphic Design:	Basic image manipulation, Upscaling, Creating infographics
Platforms:	Linux (Ubuntu)
Software:	Visual Studio, Adobe, GIMP, Github, Microsoft Office, LabView
Machine Learning:	NVIDIA CUDA toolkit, TensorFlow
Communication:	Presentations, Technical Reports, Documentation
Languages:	English (native), Japanese (native), Spanish (beginner)

Coursework

Concepts in Digital System Design
- Computer system and digital design principles. Switch and gate design, Boolean algebra, number systems, arithmetic, storage elements. Datapath, memory organization, instruction set architecture, assembly language.

Projects

Cascade Modeling Discovery Project   September 2020 to date
Using a cascading model to predict how Covid-19 will spread throughout residence halls
- Using armadillo library in C++ to simulate a chance of an infection over nodes

Machine Learning music   April 2020
Created music by feeding a character-based recursive neural network
- Used TensorFlow and the CUDA toolkit to train a large neural network on a GPU

MathWorks Math Modeling challenge   January 2020
A 3-person team coding hackathon to solve modeling and optimization problems in 14 hours
- Created a MATLAB program to model and visualize the adoption of electric trucks

Leadership

Captain of cross country, ice hockey, and track teams   Summer 2019 – Spring 2020
- Was the captain of high school varsity cross country, ice hockey, and track teams

Dorm Prefect   Summer 2019 – Spring 2020
- Dorm prefect at a boarding school for the 2019-2020 school year.