

# Zachary Minot

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## Experience

### ROCKEFELLER CAPITAL MANAGEMENT – MERLIN WEALTH MANAGEMENT

Software Development Intern

January 2021 - Present

- Part-time development work of internal application to aid in management of company data

### GEORGIA TECH

Senior Teaching Assistant, Teaching Assistant

May 2020 - Present

- TA for CS 2340 **Objects and Design**, a project-based Object-Oriented Design course
- Leader of the TA Review Team, which reviews documents released to ensure both grammatical and conceptual correctness

### CONVOPANDA

Software Apprentice

May 2019 - Jan. 2020

- Developed integral features using **Ruby on Rails** and **Javascript**, including a token-based authentication system, and the creation of a gif preview for embedded videos with **FFmpeg**
- Designed a video player overlay and edited responsive web pages using **Bootstrap**
- Fixed multiple bugs, including **CSRF** and video transcoding bugs, and wrote automated tests using **RSpec** around implemented features to ensure successful building in production

### GRABIRD SOFTWARE DEVELOPMENT, INC.

Software Development Intern

Aug. 2018 - May 2019

- Developed a survey **Android** app configurable through a server via **REST**

## Projects

### SUPER NEAT BROS.

Fall 2020

- A machine learning team project that trains a model to both play and memorize Super Mario Bros. on an NES emulator
- Built the image recognition portion of the project, including the data cleaning, KMeans, and CNN
- Built with: Pytorch, Scikit-learn, Python, Jupyter-Notebook, Lua**

### MACHINES ARE AMONG US

Fall 2020

- Training Recurrent Neural Networks (LSTMs) to "communicate" back and forth to determine which of them is an imposter and attempting to find interesting results, inspired by the game Among Us
- Built with: Pytorch, Python**

### G-PAD (GENERAL-PURPOSE AUDIO DEVICE)

Fall 2020

- Used an FPGA (DE-10 Lite) for square wave generation to a protoboard speaker to write music
- Implemented the first version of note production, the ability to play notes on two speakers at once, and wrote a Python script to aid in composing music
- Built with: VHDL, Python**

## Awards

### HACKGT

Runner Up in Anthem's Marketplace of the Future

Oct. 2019

- A mock extension of Anthem's Carespree app with a business plan and mutual benefit to company and customers
- Created almost the entire sample web app and pages, aside from the location services
- Built with: node.js, Express, Bootstrap**

## Education

Georgia Institute of Technology

Class of 2023 – 3.92 GPA

- B.S. in Computer Science  
*concent. Systems/Architecture and Intelligence*

## Skills

### LANGUAGES

- Java
- Python
- C
- VHDL
- HTML/CSS/Javascript
- Ruby
- SQL

### TECHNOLOGIES

- Pytorch/Scikit-Learn/NumPy
- Linux (Ubuntu)
- JavaFX
- Ruby on Rails/RSpec
- Bootstrap
- Git/GitHub

### MISC

- Avid Music Listener
- Frisbee Throwing Enthusiast

## Relevant Courses

Operating Systems,  
Processor Design  
CS 3210, CS 3220 – *In Progress*

Machine Learning,  
Deep Learning  
CS 4641, CS 4803 – A

Digital Design Lab,  
Computer Systems and Networks  
ECE 2031, CS 2200 – A

Computer Organization and  
Programming,  
Data Structures and Algorithms  
CS 2110, CS 1332 – Grade: A