

Zachary Minot

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Experience

GEORGIA TECH

Teaching Assistant

May 2020 - Present

- TA for CS 2340 **Objects and Design**, a project-based Object-Oriented Design course
- Member of the TA Review Team, which reviews documents released to ensure both grammatical and conceptual correctness
- Class taught in **Java** using **JavaFX** and uses **git** as version control

CONVOPANDA

Software Apprentice

May 2019 - Jan. 2020

- Developed integral features using **Ruby on Rails** and **Javascript**, including a token-based authentication system for third-party JS, and the creation of a gif preview for embedded videos with **FFmpeg**
- Designed a video player overlay and edited responsive web pages using **Bootstrap**, **HTML/Slim**, and **CSS/SASS**
- 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**
- Manually tested existing software and wrote bug reports

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
- Implemented 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 popular game Among Us
- **Built with: Pytorch, Python**

G-PAD (GENERAL-PURPOSE AUDIO DEVICE)

Fall 2020

- Using 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

Machine Learning

Deep Learning

CS 4641, CS 4803 – In Progress

Digital Design Lab

Computer Systems and Networks

ECE 2031, CS 2200 – In Progress

Computer Organization and Programming

CS 2110 – Grade: A

Data Structures and Algorithms

CS 1332 – Grade: A

Honors Discrete Math for CS

CS 2051 – Grade: A