Zachary Minot

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Experience

AMAZON, INC

Software Development Engineer I Intern *May 2021 - Aug. 2021*

- Designed and constructed a monthly calendar view in an internal dashboard for specific events in **Angular/Typescript**, saving both business users and SDEs time and effort in editing and testing
- Identified unsupported packages and defective unit tests within the existent project and created plans to fix the issues

GEORGIA TECH

Head Teaching Assistant, Senior Teaching Assistant, Teaching Assistant *May 2020 - Present*

- TA for CS 2340 **Objects and Design**, a project-based Object-Oriented Design course
- Leading 15+ TAs across 4 different teams working closely with the professor while balancing normal TA responsibilties including office hours and grading students' work

ROCKEFELLER CAPITAL MANAGEMENT – MERLIN WEALTH MANAGEMENT

Software Development Intern *Jan. 2021 - May 2021*

- Extended internal application to aid in management of company data with **React** and **Flask**

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**

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*

- Created sample web app and pages with routing and queries
- **Built with: node.js, Express, Bootstrap**

Education

Georgia Institute of Technology

Class of 2023 – 3.95 GPA

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

Skills

LANGUAGES

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

TECHNOLOGIES

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

MISC

- Drums
- Frisbee
- Rock Climbing

Relevant Courses

Operating Systems,
Processor Design
CS 3210, CS 3220 – A

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