# Madison **Grams**

Junior · Teaching Assistant

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## Education

**Georgia Institute of Technology** *Atlanta, GA*

B.S. in Computer Science, GPA: 3.86/4.0 *Aug. 2015 - Exp. Dec. 2019*

- **Major GPA:** 4.0/4.0
- **Threads:** Intelligence, Systems & Architecture
- **Honors:** Faculty Honors for Fall 2016, Dean's List for Fall 2015, Spring 2016, Spring 2017

## Skills

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|---:|---|
| **Programming** | Python, JAVA, C, Objective-C, Ruby, JavaScript |
| **OS** | Windows, Mac, Linux |
| **Markup Languages** | HTML, CSS, LaTeX |

## Work Experience

**Georgia Institute of Technology** *Atlanta, GA*

Undergraduate Teaching Assistant - CS 2110: Computer Organization & Programming *August 2017 - Present*

- Teaches bi-weekly 90 minute recitations to 75 students, covering material taught in class
- Designs and grades weekly homework that are for Java, Circuit design, assembly language and C
- Holds office hours throughout the week to offer assistance and answer student questions outside of class
- **Topics Covered:** binary, hexadecimal, bitwise operators, transistors, logic gates, assembly, and C

**Elavon, Inc.** *Atlanta, GA*

Software Development Intern *May 2017 - Aug. 2017*

- Worked with an Agile Scrum development team on a mobile app that allows businesses to run and process transactions, primarily focused on iOS development in Objective-C
- Used Apple's API to implement Touch ID in the iOS app to allow for easier user login and ease-of-access
- Implemented a barcode scanner using Google's Mobile Vision API on the Android version of the app allowing for quicker checkout
- Added code coverage and unit test support for the app using Cobertura and Slather to ensure code quality
- Implemented other minor features and fixed various bugs, depending on what needed to be done for a particular sprint

**Georgia Institute of Technology** *Atlanta, GA*

Undergraduate Teaching Assistant - CS 2050: Discrete Math *January 2017 - May 2017*

- Taught a weekly 60 minute recitation to 50 students
- Held office hours throughout the week to assist students outside normal classroom hours
- Provided timely and appropriate feedback to students to support their learning
- **Topics Covered:** Propositional Logic, Intro to Proofs, Mathematical and Strong Induction, Recursion, Algorithms, Number Theory, Cryptography, and Basic Counting

## Projects

**Should I Wear A Jacket?** *JavaScript, JQuery, HTML/CSS*

A web app advising clothing based on weather conditions

- A web application, backed by the OpenWeatherMap API that gives the user advice on what clothes to wear based on the weather

**Pygame Arcade** *Python*

Remade retro arcade games

- Recreated the games Pong and AstroRace using the Pygame module
- Both games feature a 2-player option as well as a 1-player option against a simple AI

**Bubble Bobble GBA** *C*

Remade classic NES game

- Used C to recreate the classic NES game, Bubble Bobble into a GBA Game, featuring two levels and multiple NPC enemies