

## Fanuel Makonnen Abiy

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### EDUCATION

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**Georgia Institute of Technology, College of Computing**

**Atlanta, Georgia**

• Bachelor of Science in Computer Science

**June 2017 - May 2021 (Expected)**

### SKILLS

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**Programming:** JAVA, HTML, C, SQL, Android Development, Azure Cloud, Python, JavaScript

**Courses:** Database Systems, Algorithms, Junior Design, Mobile Computing, Education Technology, Statistics

**Interests:** Human Computer Interaction, UX Design, Wearable Technology, Computer Hardware

### WORK EXPERIENCE

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**Application Delivery Service Intern, Federal Reserve Bank Atlanta**

Summer 2019

- Created a speech-to-text web application with text analysis using Microsoft's cognitive service API to minimize outsource transcription costs for the bank.
- Developed a chatbot using QNA Maker to allow bank examiners to readily reference laws and regulations with the potential to save time and reduce tedious searches.
- Enhanced the search system by providing modifiable search boost features and upvoting to push relevant results towards the top using Azure Search to improve the user search experience.

### PROJECTS

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**CS 2110 Gameboy Project in C**

Spring 2019

- Created a playable desktop program in C using the techniques taught in the class such as pointer reference, data structures, recursion, and memory allocation
- Used sprites as moveable objects and programmed them to move in cardinal directions, while remaining cognizant of the screen boundaries.
- Debugged and tested the code several times throughout the process to view how different additions affect the program overall.

**Space Traders Android Game**

Spring 2018

- Collaborated with a group of students to create a variation of the Space Invaders game using Android Studio and JAVA while incorporating SOLID design principles.
- The user travels the solar system after customizing their character, to purchase and sell various goods on different planets, experiencing market changing events, until they reach the currency goal to ultimately win the game.
- Created JUnits to test different functionalities of the game to look for bugs and enhance application performance.
- Conducted conditional and branch testing to reach each possible condition to view how the code acts upon execution.

### CAMPUS INVOLVEMENT

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**National Society of Black Engineers**

Fall 2017 - Present

- Help increase the number of culturally responsible black engineers who excel academically, succeed professionally, and positively impact the community.
- Network with other professionals working in STEM fields to help build communication skills and showcase abilities for job opportunities.

### AWARDS & HONORS

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- OMED Tower Awards for Academic Excellence: Bronze (2018)
- Fall 2019 Georgia Tech Dean's List