

John Austin Miles

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, Georgia

Bachelor of Science in Computer Science

Graduating May 2021

- 4.0 Cumulative GPA – Concentrations: Modeling and Simulation & Media

PROJECTS

Cleanup Coordinator (Flask, HTML, Python, Bootstrap, PostgreSQL)

February 2019 - Present

A robust platform to organize, assign, and log cleanup tasks for a large organization.

- Utilized Twilio Texting, Google Sheets, and Amazon Web Services APIs for automated assignment and storage.
- Currently used by 50+ members weekly for managing the cleanup hour system at Georgia Tech Delta Chi.

CS1371 Autograder (MATLAB, Octave)

January 2019 - Present

An open-sourced, powerful system used to grade a variety of formats for student homework submissions.

- Contributed on migrating the current autograder to the cloud for instantaneous student feedback upon submission.
- Assisted in translating Matlab to Octave to run on a server-hosted Docker image, compliant with licensing

AnimationPlayground (Android, Kotlin, Java)

June 2019 - Present

A simple physics engine implementation for a creative display of to-do list tasks.

- Integrated the JBox2D physics engine with Android's onboard accelerometer for an interactive UI
- Implemented Google's ROOM SQLite database management system for modern Android storage.

OSTODO (Python)

May 2019 - Present

An adaptive task management system based on the design principles of real-life operating systems

- Fused concepts from Round Robin, Priority-based, and Time-based programming philosophies
- Implemented CSV backend for easy task management and modification.

EXPERIENCE

Teaching Assistant, CS1371, Computing for Engineers

Fall 2018 – Present

- Taught recitations, hosted review sessions, held weekly office hours, and proctored and graded exams
- Contributed on the CS1371 Software Development team to create innovative technology for grading automation
- Worked with the CS1371 Test Team to write tests and ensure their quality and fairness.

Shift Manager, Macedonia Pizza Hut

January 2016-June 2017

- Managed a team of over 20 employees to ensure productive workflow and cooperation
- Handled inventory and daily finances to establish profitability and consistency

LEADERSHIP

Housing Manager

Delta Chi Fraternity

March 2019 – Present

- Managed safety and cleanliness of a multi-million dollar property that houses 50+ members
- Dramatically improved the cleanup task system through automation with the CleanupCoordinator

SKILLS

Languages: Advanced: Python, Java, MATLAB | Intermediate: C, HTML, Kotlin | Basic: Typescript, CSS,

Software: Amazon Web Services, Android Studio, Heroku, Microsoft Office, Flask, JetBrains IDEs, JavaFX

Coursework: Systems and Networks, Artificial Intelligence, Data Structures and Algorithms, System Design

ACTIVITIES

Volunteer: Anna Crawford Children's Center – Chairman of the Youth Advocacy Board, Tech Beautification Day – Volunteer, Georgia Tech Delta Chi – Associate Member Class Fundraising Chair

Awards: Zell Miller Scholarship Recipient, Dean's List, Faculty Honors, High School STAR Student, ACT: 36