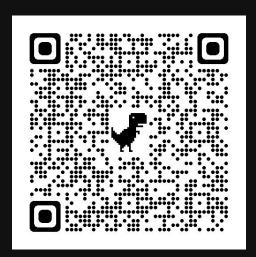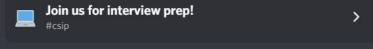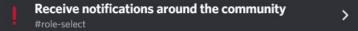# ACM Spring 2022

CSIP 7

Introduction

Welcome!

Welcome to **Association for Computing Machinery @ UGA**

TOP THINGS TO DO HERE

Join us for interview prep!
#csip

Receive notifications around the community
#role-select

See what events are happening
#shared-calendar

Look through our resources
#general-resources

Introduce yourself
#intros

I'll just look around for now

Upcoming Events

MON	TUE	WED	THU	FRI
28	1	2	3	4
	● 6pm ACM-CSIP	● 6pm ACM-W Girls.Code	● 6pm ACM GBM	
7	8	9	10	11
Spring Break				
14	15	16	17	18
	● 6pm ACM-CSIP		● 6pm ACM GBM	

Mental health resources

Resume

Crash Course

Student Name

123 Home Address St.   (123) 456-7890   123 School Address St.
Atlanta, GA 30301   first.last@gmail.com   Athens, GA 30601

EDUCATION

The University of Georgia, *Honors Program*, Athens, GA   May 2020
- **Majors**: Bachelor of Business Administration in Finance & Economics, Certificate in Personal & Organizational Leadership
- **GPA**: XX/4.00
- **Honors**: Presidential Scholar (4.0 Semester), Honors Program (Top 5% of Class), Zell Miller Scholarship (Full Tuition)
- **Relevant Coursework**: Financial Accounting, Financial Management, Statistical Analysis for Business

PROFESSIONAL EXPERIENCE

State Farm Insurance, *Corporate Bond/Private Equity Intern*, Bloomington, IL   May 2018 - August 2018
- Performed fundamental analysis of publicly traded companies to potentially add to State Farm's Corporate Bond portfolio
- Presented investment recommendation to department members through a written report and oral presentation
- Researched and analyzed committed and prospective private equity fund managers
- Selected Research Experience:
  - **XYZ Company fundamental credit research report**
    - Conducted in-depth analysis of the maintenance, repair, and operating supplies distribution industry
    - Analyzed 10 years of financial statements to gain knowledge of historical company financial policy
    - Led a call with a research analyst to assist in determining forward-looking financial policy
    - Presented investment recommendation and suggested portfolio allocation to entire fixed income team

Mathnasium: The Math Learning Center, *Instructor*, Bloomington, IL   February 2016 - July 2016
- Tutored students from grades K-12 by employing the Mathnasium Team Teaching method to teach numerical fluency, Algebra, Geometry, and Precalculus
- Organized students' personalized curriculum in binders and maintained a clean and efficient work place

Buffalo Wild Wings, *Cashier/Certified Trainer*, Bloomington, IL   January 2014 - July 2017
- Organized the transportation of trays and takeout orders, bussed tables and maintained a clean restaurant, took orders over the phone, and greeted and seated customers
- 1 of 4 Team Captains responsible for training new cashiers, servers, and managers as well as supervising trained cashiers in the tasks stated above

LEADERSHIP & RELEVANT EXPERIENCE

Corsair Society, *Member*, Athens, GA   April 2018 - Present
- Selected as 1 of 28 students to a University of Georgia Honors Program-sponsored organization that prepares students for careers in the financial services industry
- Focus on development through active industry discussion and furthering of finance and accounting knowledge

Student Managed Investment Fund, *Technology Analyst*, Athens, GA   April 2018 - Present
- Selected as 1 of 42 students to manage a student-run value fund with over $1.6 million in assets under management
- Conduct macroeconomic and industry-specific research as well as present and defend potential undervalued investment opportunities in the technology sector
- Submit monthly reports issuing buy, sell, or hold ratings on current portfolio holdings

Institute for Leadership Advancement, *Leadership Fellow*, Athens, GA   March 2018 - Present
- Participate in a highly selective leadership program designed to enhance leadership capabilities and knowledge through academic course work, community service, team building, and a leadership speaker series resulting in an academic certificate in personal and organizational leadership

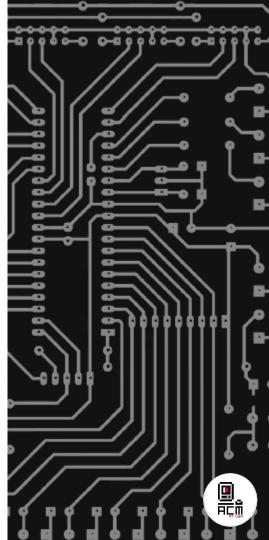**Apollo Society**, *Energy Sector Leader*, Athens, GA   August 2017 - Present
- Selected as 1 of 8 top pre-business students to manage a $100,000 fictitious investment portfolio
- Participate in active market discussion, portfolio management, and increase finance and accounting knowledge
- Research, present, and defend stock recommendations in the energy industry
- Lead a group of younger students and teach them basic equity research and valuation methodologies

Terry Student Consulting, *Senior Consultant*, Athens, GA   November 2016 - May 2018
- Attended weekly meetings and networking events with consulting professionals from a variety of companies
- Completed a curriculum that included case workshops, interview practice, and behavioral analysis
- Worked in a group of four people to identify and solve a problem that a local business was facing

Kennedy Program, *Member*, Athens, GA   January 2017 - May 2017
- Attended weekly meetings for an interactive market discussion and presentations covering the financial services industry
- Learned about different areas of financial services industry including investment banking and asset management
- Listened to a variety of speakers in the financial services industry including investment banking analysts

INTERESTS

NCAA Football, Classic Rock, Hiking, US History

Intro

Student Name

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Prof Exp.

PROFESSIONAL EXPERIENCE

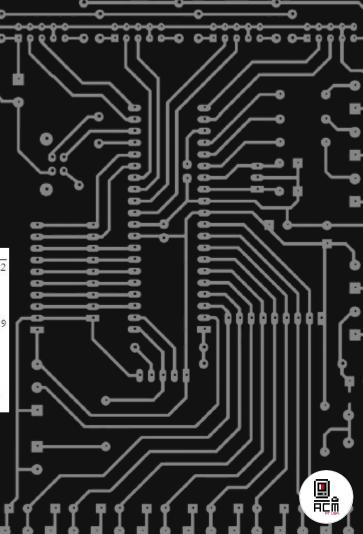**Google**, *STEP Intern*, Sunnyvale, California   May 2022 - August 2022

- Working with the Apps (Gmail and Chat) team over a 12 week duration on-site
- Programming daily on a team of current Google Software Engineers along with another intern, having consistent meetings and recurrent progress checks

Bryan County Schools, *Computer Science & IT Intern*, Richmond Hill, Georgia   August 2019 - December 2019

- Provided customer service to the 2,000+ students at Richmond Hill High School, helping them work through issues with computers and Chromebooks, while also communicating problems to my superiors by submitting 100+ work requests.
- Helped 50+ teachers and 20+ administrators set up an online classroom for 1000+ students at McAllister Elementary through the distribution and installation of 1,500+ Chromecasts, Chromebooks, and Chromecarts.
- Worked with administration from my local high school and elementary school to keep all school-provided technology up and running throughout the course of the 8-hour learning window 5 days a week.

Projects

Java Pathfinding Application   July 2021 - August 2021
- Created a Pathfinder Application in IntelliJ that utilizes Java Swing to visualize A* and Dijkstra algorithms.
- Allows users to choose between algorithms and decide the density and/or position of obstacles on the map, followed by a visualization of the search method itself on a 10x10 to 50x50 grid.
- Provides the user with a highlighted path from the start node to end node upon completion.

Python Arcade Game   May 2020
- Developed a python arcade game in Pycharm that utilizes pygame to provide the user with a GUI displaying the game.
- Maps hitboxes for in-game enemies and provides a score for the user, as well as a game over screen.
- Utilizes the arrow keys and left-click as controls for the game, and proper bullet tracking as well as increasing enemy difficulty.

Leadership/Soft Exp.

LEADERSHIP & RELEVANT EXPERIENCE

Computer Science Interview Prep, *Executive/Club Leader*, Athens, GA   August 2021 - Present
- Present weekly workshops on the topics of data structures and algorithms, soft/social skills, and resume work, in order to prepare current computer science majors for the interview process for software-related positions across the country.
- Prepare, solve and explain Leetcode and Codesignal problems with members in order to better understand the process of creating solutions and being able to present and explain them in a robust and confident manner.
- Work one-on-one with students on specific facets of the interview process they feel weak on, from resume development to presentation of problem solutions and everything in between.

Association of Computing Machinery, *Executive*, Athens, GA   August 2021 - Present
- Plan weekly General Body Meetings with fellow executives at weekly executive board meetings with the goal of immersing members in the vast and interesting world of computing
- Schedule and accommodate guest speakers from different companies from around the country, such as Google, AT&T, NCR and many others
- Develop and present workshops and events for members to interact with, from setting up VSCode on a local machine to learning how to create a website with flask.

Practice

1678. Goal Parser Interpretation

You own a **Goal Parser** that can interpret a string `command`. The `command` consists of an alphabet of `"G"`, `"()"` and/or `"(al)"` in some order. The Goal Parser will interpret `"G"` as the string `"G"`, `"()"` as the string `"o"`, and `"(al)"` as the string `"al"`. The interpreted strings are then concatenated in the original order.

Given the string `command`, return *the **Goal Parser**'s interpretation of* `command`.

Example 1:

```
Input: command = "G()(al)"
Output: "Goal"
Explanation: The Goal Parser interprets the command as follows:
G -> G
() -> o
(al) -> al
The final concatenated result is "Goal".
```

Example 2:

```
Input: command = "G()()()()(al)"
Output: "Goooal"
```

6. Zigzag Conversion

The string `"PAYPALISHIRING"` is written in a zigzag pattern on a given number of rows like this: (you may want display this pattern in a fixed font for better legibility)

```
P   A   H   N
A P L S I I G
Y   I   R
```

And then read line by line: `"PAHNAPLSIIGYIR"`

Write the code that will take a string and make this conversion given a number of rows:

```
string convert(string s, int numRows);
```

Example 1:

```
Input: s = "PAYPALISHIRING", numRows = 3
Output: "PAHNAPLSIIGYIR"
```

Conclusion