

MALACHI CRAIN

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EDUCATION

Bachelor of Science, May 2025

The University of Alabama, Tuscaloosa, AL

Double Major: Computer Science and Mathematics

GPA: 4.0/4.0

RELEVANT EXPERIENCE

IT Intern, June 2023-August 2023

The Depository Trust and Clearing Corporation (DTCC), Tampa, FL

- Developed AutoSys batch process with Java and SQL to ensure reports are generated daily, increasing client satisfaction and reducing cloud storage costs
- Migrated multiple Java applications to password access manager, enhancing security
- Tested code changes in Dev & QA environments, verifying code quality
- Created PowerAutomate flows and a PowerApp to automate business processes

Co-Researcher, February 2022-Present

The University of Alabama, Tuscaloosa, AL

- Developed a Python program to tap into AI tools, such as Word2Vec, BERT, and Alpa, to analyze texts and test hypotheses about natural language processing
- Accessed high-performance cloud computing tools to run program at scale
- Sorted and compiled data, in order to co-write conference presentation

Backend Developer, April 2022 and April 2023

UA Hackathon and Innovation Challenge, Tuscaloosa, AL

- Placed 3rd of 8+ teams in the Full Stack Development category two years in a row
- Collaborated with a team of four in a competitive, fast-paced environment
- Created two functioning mobile apps with React.js and MongoDB, one to display relevant campus resources and the other to collect and store resumé data

ADDITIONAL EXPERIENCE

DoorDash Delivery Driver, May 2022-August 2022, Fort Campbell, KY

Lifeguard, May 2019-April 2021, DFMWR, Fort Hood, TX

Debate Club Member, August 2017-May 2018, Fayetteville, NC

PRESENTATIONS

Andrew Ash and **Malachi Crain**, “Word Prediction Algorithms and the Analysis of Literary Texts,” 35th Annual Science Literature and the Arts Conference, Purdue University, October 8, 2022

AWARDS

UA College of Arts & Sciences Outstanding Sophomore (October 2022), University of Alabama President’s List (December 2021-Present), National Merit Finalist (2021)

VOLUNTEER EXPERIENCE

BamaCatholic Vice President of Liturgy (January 2024-Present), BamaCatholic Bible Study Leader (September 2022-Present), Killeen Rainbow Rooms (February 2019-April 2020), World Changers Hurricane Relief in New Jersey (2017), Lelani Mae Horse Rescue (September 2015-April 2018)

SKILLS

JavaScript, Java, Python, C++, C, SQL, Git, HTML, CSS, Natural Language Processing, Microsoft Power Suite, Public Speaking, Writing, Teamwork