

# 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**, March 2024

UA Hackathon and Innovation Challenge, Tuscaloosa, AL

- Placed 1<sup>st</sup> out of 8+ teams in the Full Stack Development category
- Collaborated with a team of four in a competitive, fast-paced environment
- Created a functioning candidate portal site with React.js and MongoDB

## 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,” 35<sup>th</sup> Annual Science Literature and the Arts Conference, Purdue University, October 8, 2022

## AWARDS

Computer Science Outstanding Junior (April 2024), College of Arts & Sciences Outstanding Sophomore (October 2022), UA President’s List (December 2021-Present), National Merit Finalist (2021)

## VOLUNTEER EXPERIENCE

BamaCatholic Vice President of Liturgy (December 2023-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