

Abigail Santiago

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EDUCATION

Davidson College

Bachelor of Science, Cum Laude, Computer Science Major

Davidson, NC

May 2018 - May 2022

- GPA: 3.58
- Relevant Coursework: Data Structures, Analysis of Algorithms, Machine Reasoning, Real-Time Systems

Adjacent Academics

San Francisco, California

Davidson in Silicon Valley

Summer 2019

- Learned HTML, CSS, JavaScript, Front-End and Back-End Web Development

HONORS

Posse Foundation Scholarship

Full Tuition Scholarship Recipient

May 2018- May 2022

Davidson College Sophomore Computer Science Award

Recipient

April 2020

Davidson College Senior Computer Science Award

Recipient

April 2022

WORK EXPERIENCE

University of Texas at Austin, The Texas Advanced Computing Center

Remote

Undergraduate Researcher

June 2021-March 2022

- Developed and designed an independent research project titled "Investigating Bias in Machine Learning Models for Homelessness Resource Allocation"
- Utilized the scikit-learn python machine learning library to create and evaluate the fairness of machine learning models
- Utilized the matplotlib python library to visualize fairness and interpretability metrics of the created machine learning models
- Prepared a poster presentation and corresponding paper for the end of summer National Science Foundation poster symposium

Project PRONTO

Davidson, NC and Remote

Web Developer

September 2019- May 2021

- Worked with the Davidson Hurt Hub to create a user-friendly interface for scheduling student employees
- Utilized MongoDB to store students' and clients' data
- Built an interactive interface using the RShiny framework for staff to keep track of student employees
- Used SQL to store student data and manipulate student data on the front end

College Crisis Initiative

Remote

Data Collector

July 2020-August 2020

- Collected data on College and University Fall 2020 reopening plans in relation to COVID-19
- Worked on a paper analyzing different Institutions' technological resources for students through a lens of equity
- Provided data on Fall 2020 College and University plans to the Center for Disease Control

RISE

Davidson, NC

Student Researcher

May 2019-June 2019

- Worked with a Davidson Computer Science professor to study Self-Teaching Game-Playing Algorithms
- Compared the accuracy and efficiency between self-taught human-encoded chess programs
- Developed a method for automating and running specific chess puzzles on chess-playing programs and comparing their results

LEADERSHIP & INVOLVEMENT

Latinas Promoviendo Comunidad/Lambda Pi Chi Sorority, Inc

President

August 2021-May 2022

D-CODE Co-founder and Co-chair

Summer 2020- May 2022

- An organization for BIPOC and Minority students exploring the field of Computer Science with a focus on their academic and professional development

Fits For Change Co-founder

Summer 2020- Present

- An organization selling donated clothing online to raise money for social justice organizations and promote sustainability

The Student Initiative for Academic Diversity

Equity Consultant and Co-Recruitment Chair

Fall 2019-May 2022

- Interview candidates up for tenure track professor positions at Davidson College and provide assessment based on their commitment to diversity and inclusion in academia

SKILLS

- Technical Skills: Adonis.js, Express.js, Semantic UI, Bootstrap, Microsoft Suite, SQL, MongoDB, React Framework, RShiny Framework, Git and GitHub, Matplotlib, NumPy, TensorFlow, pandas, scikit-learn
- Technical Languages: Python, Java, JavaScript, HTML, CSS, C, R, C++, C#