

Mason Hagan

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EDUCATION

Florida State University

Tallahassee, FL

Bachelor's Degree, Computer Science, GPA: 3.52

Jan. 2020 – Dec. 2023

Organizations: Association for Computing Machinery, Codeducation, Chess Club, Society of Undergraduate Mathematical Students, Google Developer's Club

President's List Recipient, Dean's List Recipient

EXPERIENCE

Undergraduate Researcher

June 2023 – Present

Florida State University

Tallahassee, FL

- Collaborated with the FSU College of Medicine to develop an interactive virtual patient out of a large language model, assisting medical students in conducting their standard patient assessments.

Software Engineer Intern

Jun. 2023 – Present

Keysight (NYSE:KEYS)

Colorado Springs, CO (remote)

- Designed a large scale solution for a product recommendation engine for the eCommerce platform using a machine learning model.
- Contributed to the development of a high traffic Django web application used company-wide.

Software Engineer Intern

May 2022 – Aug. 2022

Proplogix

Sarasota, FL (remote)

- Contributed to an approximate 75% increase in the speed of company-wide employee off-boarding processes by designing, programming and deploying the automation of 5 crucial off-boarding processes. Became deeply familiar with C#, end to end unit testing, the SCRUM/Agile methodology and Azure.

RESEARCH

Transformer Model Typo Handling and Neural Network Resiliency

June. 2023 – Present

Prof. Gary Tyson

Tallahassee, FL

- Generated new NLP datasets gauging a transformer model's ability to handle typos, tested on BERT and GPT2.
- Tested neural network resiliency of BERT by silencing groups of nodes and benchmarking performance using GLUE and SQuAD benchmark

Possibility Theory with Graph Algorithms

Jan. 2023 – May 2023

Prof. Daniel Schwartz

Tallahassee, FL

- Assisted Professor Daniel Schwartz at Florida State University with research on possibility theory and its applications in vehicular routing and mapping, creating algorithms for finding optimal routes in directed graphs of nodes weighted by possibility degree.

COMPETITIVE PROGRAMMING

Spring 2023 ACM Programming Contest: top 6%

Fall 2022 ACM Programming Contest: top 10%

Spring 2022 ACM Programming Contest

PROJECTS

(These items are clickable hyperlinks. For more information, click on each project.)

2D Python Game

Multi-User Job Application Tracker

Multi-User Math Education Platform

Paper Trading Server/Orderbook

2D C++ Game

Multi-threaded Linux Kernel Module

TECHNICAL SKILLS

Languages: C/C++, C#, Java, Python, HTML/CSS, R

Frameworks: Django, Flask