Mason Hagan

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EDUCATION

Florida State University   Tallahassee, FL
Bachelor's Degree, Computer Science, GPA: 3.56   *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/developed a large scale solution for a product recommendation engine for the eCommerce platform using various machine learning algorithms.
- Contributed to the development of a Django/React 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 by programming the automation of several crucial 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 (Directed Study)   *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 (Directed Study)   *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