

TIMOTHY METZGER

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EDUCATION

M.S. Computer Science, Georgia Institute of Technology Expected May 2024
Specialization: Interactive Intelligence GPA: 3.80

B.S. Mechanical Engineering, Saint Louis University 2019 - 2022
Minor in Engineering Mathematics GPA: 4.0
Summa Cum Laude

A.S. Engineering Science, Saint Louis Community College 2014 - 2018
GPA: 3.90

SKILLS

Technical Skills Python, C, C++, Java, C#, Rust, SQL, MATLAB, LABVIEW, Autodesk, MS Office
Libraries NumPy, SciPy, Pandas, Matplotlib, spaCy, Qt, Junit
Soft Skills Problem Solving, Communication, Teamwork, Management
Certifications Licensed Engineer in Training - MO

PROFESSIONAL EXPERIENCE

Material Discovery Research Assistant Jan 2023 - May 2023
Georgia Tech *Atlanta, GA*

- Conducted research on discovering new materials using AI
- Translated lattice structure information into a computer recognizable structure
- Manipulated graph neural network to find potential materials

Stock Trader Jan 2019 - Present
Self *Eureka, MO*

- Traded stocks and cryptocurrencies, primarily those labeled as "blue chip"
- Developed several trading models using a variety of machine learning techniques
- Maintained a positive PnL throughout

Assistant Manager Jan 2014 - Jan 2017
Schnucks *Eureka, MO*

- Assisted in employee scheduling
- Collaborated with department leads to optimize workflow
- Maintained tight deadlines for product delivery and sales

PROJECTS

N-Directional A* Search. Implemented an N-directional A* search algorithm in Python for finding the optimal path between N locations in the greater Atlanta region. Algorithm solves a problem similar to the Traveling Salesman problem, but in a way that can leverage many of the common A* search optimizations such as landmarks, shortcuts, and ATL

Andrew File System. Implemented a functional replica of the Andrew File System using C++ with Googles protobuf and gRPC.

Raven's Progressive Matrix Agent. Created an agent capable of solving the visual based Raven's intelligence problems with results exceeding that of humans.