

# Thomas G Fan

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## EDUCATION

Missouri University of Science and Technology (Missouri S&T) — **GPA: 3.94/ 4.0**  
**M.S. Computer Science**

Rolla, MO  
May 2024

- Relevant Courses: Deep Learning, Algorithms, Data Structures, OS, Databases, Networks, AI
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## EXPERIENCE

### Gap Tech Internship

San Francisco, CA

*Software Engineer Intern*

Summer 2022

- Contributed to backend development for price planning and execution, leveraging Java, Spring Boot framework, and Scrum methodologies.
- Developed and moved code through production that updated deprecated metrics used in service and API calls.
- Monitored code affecting controllers and end points through database queries and unit testing.

### Wells Fargo Internship

St. Louis, MO

*Software Engineer Tech Intern*

Summer 2021

- Influenced billing fee calculations by providing accurate date conversions and effectively mapped extensive database data which resulted in comprehensive diagnostics for over 100,000 service calls.
  - Served 23 Crown Jewel web applications and refined queries, alerts, and transaction snapshots in the wholesale of wealth and investment software.
  - Consulted application performance monitoring (APM) tools to oversee database issues and server health.
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## SKILLS

- Python, Java (Object Oriented Programming), C++, HTML/CSS
  - Tensorflow, PyTorch, Git, SQL, Jira, Agile Methodology, Visual Studio, Postman
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## PROJECTS

### Deep Learning Class - DSCI 619, Maryville University

05/15/23 - 7/17/23

- Successfully completed 8 diverse projects and a final project mastering Tensorflow and PyTorch.
- Presented understanding of regression and classification challenges and application of CNN and RNN models at course completion.

### Chess AI

03/13/22 - 05/13/22

- Crafted a formidable Chess AI enabling dynamic real-time competition with other AI engines.
  - Orchestrated the implementation of advanced algorithms to optimize move selection, seamlessly integrated with the Universal Chess Interface.
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## ACTIVITIES

### Multirotor Robot Software Design Team

Rolla, MO

*Computer Vision Developer*

8/13/19 - 05/13/22

- Teamed with 30+ software developers in designing and unit testing code for flying autonomous drones in competition with Numpy, OpenCV, and machine learning in Python.
- Developed drone software able to detect objects from the surrounding background at 70 mph. Blobs and objects were counted by software through color contrast analysis. Assigned with drone blob detection in a subgroup for the Multirotor Robot Design Team drone project.

### Missouri S&T — ACM

Rolla, MO

*ACM Competition & ACM Web Design Member*

8/13/19 - 05/13/22

- Optimized website structure through frontend and backend design, ensuring flawless functionality of the ACM web website. Collaborated on website formatting and enhanced payment fee functionality for an improved user experience.
- Utilized ReactJS in web development to improve promotions and advertisements with 14 other engineers.
- Contributed to programming puzzles of various difficulty and participated in coding competitions at ICPC.