

# Tyler G. Tracy

479-970-0223  
TylerTracy1999@gmail.com  
GitHub: [TylerTheCoder](#)

## Education

### Bachelor of Science in Computer Science, Minor in Mathematics

University of Arkansas, Fayetteville, AR

December 2020

### Master's of Science in Computer Science, Focus in Computational Complexity Theory

University of Arkansas, Fayetteville, AR

GPA: 3.94

August 2020

In Progress

## Work Experience / Research

### SERI MATS Scholar working with Redwood Research on AI control

June 2024 - present

- Worked closely with a team of MATS scholars to design and evaluate safety protocols to control AI systems working in a bash setting
- I focused on red-teaming efforts by designing methods for AI systems to hide their actions in various ways

### Agent foundations research through AI safety camp

Jan 2024 - May 2024

- Researched the agent structure problem. The agenda is to define shared structures that are necessary for agentic behavior.

### Self-Assembly of Patterns in the abstract Tile Assembly Model

March 2024

- Published research on the formation of different patterns in the abstract tile assembly model. My work focused on proving tile complexity lower bounds of simple patterns.
- Worked closely with my professor and other collaborators and published to [arxiv](#)

### Software Engineer II at SupplyPike

October 2022 - May 2024, Fayetteville AR

- Led the design and development of a distributed scraper system. Utilized a queue architecture to OCR and extract data from thousands of files a day
- Spearheaded a new product's technical design and development, integrating data from multiple internal applications. The system greatly improved data visibility, accessibility, and usability across various departments.
- Worked on internal tools team to help make shared services for other teams

### Software Engineer at Insurgrid

Jan 2022 - Oct 2022, Fayetteville AR

- Worked on a small agile team to build and maintain a software suite that serviced 2,000 weekly customers
- Added monitoring and alerting to our data scraping pipeline for quicker detection of malfunctioning jobs

### Software Engineer at Tesseract

Nov 2020 - Jan 2022, Fayetteville AR

- Worked with a team of three to create and maintain a production level software application suite
- Designed and built a command center room running Linux applications on multiple large touchscreen monitors with an AR/VR interface

### Software Engineering Intern at SupplyPike

June 2018 - May 2019, March 2020 - June 2020, Fayetteville AR

- Worked as a full-stack developer on both individual and team projects
- Developed a browser extension and electron application to auto-login users into the company websites and auto-track shipments, cutting time spent looking up orders by 50%. 300 active users

### Co-Founder and CTO of Sider

November 2019 - Present, Fayetteville AR

- Founded Sider, a company that connects small companies that need work done with skilled students who can help
- Developed a website and mobile application that facilitates the connections of companies and students. Includes chat system, integrated payment, portfolio document upload, and mobile text signup.

### Software Engineering Intern for Google Cloud Auto Machine Learning Platform

Summer 2019, Seattle WA

- Launched beta UI for Google Cloud AutoML Video Intelligence
- Created and maintained a UI for managing video datasets and machine learning models
- Wrote more expansive unit tests for components and created integration tests to test the key functionality of pages
- Improved a bounding box common component to let users edit labels on videos, allowing higher model accuracy
- Interfaced with team members, UX designers, back-end engineers, and product managers to accomplish project goals

## Accomplishments and Organizations

### Founder of NWA AI Meetup

June 2023 - Present

- Created a meetup in my community with 100+ members
- Facilitate discussions about news in AI and hosted events to teach others new skills
- Gave many presentations about the future of AI and how to approach it safely

### Effective Altruism Introduction Group

Jan 2023 - May 2023

- Actively participating and contributing to the introduction group discussions and activities.

### President of Association of Computing Machinery (200 members)

Fall 2019 - Spring 2020

- Led a team of six officers to schedule and plan events for computer science students
- Built relationships with local companies by facilitating campus recruiting events, tech talks, and hackathons
- Lead artificial intelligence, special interest group. Created a playable checkers bot to teach the basics of AI

### Eagle Scout, Member of Troop 214

Fall 2016