

# Logan Markley

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## EDUCATION

### Missouri University of Science and Technology

May 2025

*Bachelor of Science in Computer Science*

*GPA: 4.0/4.0*

#### Courses:

- |                   |                     |                     |                  |
|-------------------|---------------------|---------------------|------------------|
| - Data Structures | - Database Systems  | - Computer Networks | - Intro to A.I.  |
| - Algorithms      | - Operating Systems | - Computer Security | - SWE Capstone I |

## EXPERIENCE

### Research Assistant

Dec. 2023 – Present

*Missouri S&T Center for Aerospace Manufacturing Technologies (CAMT)*

*Rolla, MO*

- Engineered a web application to store, display, and analyze data from a manufacturing machine within the lab
- Communicated development progress, requests, and feedback to continuously improve the website's capabilities
- Dedicated around 15 hours weekly for planning, meetings, research, problem-solving, and coding

### Frontend Engineer Intern

May 2024 – Aug. 2024

*Momentum Technologies - Elite Team*

*St. Louis, MO*

- Converted over 20 components from Vue2 to Vue3 while ensuring compatibility with all other services
- Automated the testing for these components by writing unit tests with Vitest
- Developed a deeper understanding of a web application's architecture, interactions, and data transmission
- Contributed to the overall enhancement of the production software by participating in an Agile Scrum environment

### Peer Learning Assistant

Sept. 2022 – Jan. 2024

*Missouri S&T Learning Enhancement Across Disciplines (LEAD)*

*Rolla, MO*

- Facilitated over 75 group tutoring and exam review sessions, benefiting over 200 unique students
- Reinforced interactive learning and engagement through thoughtful dialogue, explaining, and questioning

## PROJECTS

### Spee3D Data Analysis Dashboard | *TypeScript, React, Node.js, PostgreSQL*

Dec. 2023 – Present

- Automated data streaming from the Spee3D manufacturing machine directly into the database and website by monitoring when new files get outputted
- Allowed users to visualize and inspect data from a chosen manufacturing job in table or line graph format
- Utilized Docker Compose to allow the site to be portable, secure, and easy to initialize from any machine

### Room Planner | *Python, Pygame*

June 2023 – Aug. 2023

- Constructed a Python application using Pygame for precise furniture and wall arrangements in a floor plan style
- Provided a comprehensive design software for multiple users, allowing them to create customized room layouts

## ACTIVITIES AND HONORS

### President

May 2024 – Present

*IEEE - Eta Kappa Nu Honors Society*

*Rolla, MO*

- Spearheaded the collaboration of all 10 officers in order to have an impactful and present semester on campus
- Coordinated with the ECE Dept. to attend the annual Student Leadership Conference and host other events

### Co-Founder & Co-Chair

March 2024 – Present

*ACM Career*

*Rolla, MO*

- Advocated for a new Special Interest Group within S&T's chapter of ACM focused on CS career development
- Empowered over 100 CS students' careers through weekly workshops, 1-on-1 guidance, and an informative Discord

**Honors:** Dean's List, Garmin Miner Merit Scholar, Bright Flight Scholar, Honors Academy Scholar, Curators Scholar

**Certifications:** LinkedIn TypeScript Essentials, LinkedIn Vue3 Essentials, LinkedIn Docker for Developers

## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript, Python, C++, HTML, CSS, SQL, Java

**Frameworks & Libraries:** Vue.js, React, Axios, Express, Pygame, Multer, Pandas

**Developer Tools:** Linux, Git, Github, Docker, PostgreSQL, Prisma, VS Code, Jira