

# Piper Jeffries

## Computer Science - Undergraduate Student

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## SUMMARY

Computer Science senior with experience designing and building full-stack web applications, including a solo project integrating AI via API. Conducted research in quantum computing and AI-driven education tools for beginner programmers. Skilled in Python, JavaScript, and AI frameworks, seeking a full-time software engineering position.

## EDUCATION

### Bachelor of Science in Computer Science

#### Missouri University of Science and Technology

August 2022 – December 2025    Rolla, MO

- Computer Engineering Minor
- Mathematics Minor
- GPA: 3.75 | Dean's List

### High School

#### North Callaway High School

August 2018 – May 2022    Kingdom City, MO

- Ranked 3 in graduating class of 2022

## EXPERIENCE

### Student Assistant IT

#### Desktop Support - Information Technology, Missouri S&T

January 22 – Present    Rolla, MO

- Resolve technical support tickets for faculty and staff by providing both onsite and remote hardware and software support.
- Configure and deploy new workstations and laptops
- Perform regular maintenance including Windows updates, antivirus scans, and backup verification across campus computers.

### Undergrad Research Assistant

#### Computer Science Department

May 2025 - August 2025    Missouri S&T

- Independently designed and implemented a full-stack web app, **WriteEZ**, using Java and Python, with a FastAPI backend.
- Integrated local AI models for speech-to-text and document formatting via Ollama's WebLLM and Whisper, enabling full offline functionality.

### Cashier

#### Hobby Lobby

October 2022 – December 2024    Rolla, MO

### Manager

#### The Spot

April 2019 – August 2022    Fulton, MO

- Trained and led a team of three employees by providing motivation, assigning tasks, and offering guidance and support.

## TECHNICAL SKILLS

- **Programming:** Python, JavaScript, C++ , SQL, R
- **Web Development:** Flask, FastAPI, REST APIs, HTML/CSS
- **AI/ML:** Speech-to-Text, API integration
- **Tools & Systems:** Git, GitHub, Linux, Windows, macOS, VirtualBox

## RELEVANT COURSEWORK

- Algorithms, Data Structures, Operating Systems
- Communication Networks, Computer Security
- Quantum Computing
- Capstone I & II
- Data Science, Regression Analysis

## ACTIVITIES

- **Chief Administrative Officer** – Motorcycle Design Team
- **Public Relations** – South Winds

## ACHIEVEMENTS

- Dean's List
- Top 5 Graduating Class of 2022

## PROJECTS

### AI Coding Assistant:

- Collaborated on developing an AI-powered chat tool for beginner programmers.
- Focused on refining prompts and training workflows to ensure refactored code outputs were accurate, reliable, and educational for novice users.

### Quantum Computing:

- Researched the Discrete Bulk Reconstruction Problem (DBRP), an algorithm for reconstructing bulk geometry encoding quantum information, with applications to fundamental physics.