Julian Fletcher

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EDUCATION

University of Missouri — Columbia, Missouri

M.S. Computer Science — Expected May 2027

B.S. Computer Science — Expected May 2026

Minor in Mathematics, Information Technology — GPA 3.65/4.0

EXPERIENCE

Enterprise Mobility — May 2025 — July 2025

Frontend Software Development Intern — St. Louis, Missouri

- Developed new user-facing features across multiple Jira stories using React.js
- Integrated RESTful APIs to dynamically fetch and display real-time data while ensuring responsiveness
- Optimized application stability and performance by resolving complex bugs
- Authored comprehensive unit tests using Vitest, ensuring code quality and reliability for critical features

MU Vice Chancellor of Student Affairs — August 2025 — Present

Student Assistant — Columbia, Missouri

- Engineered Python scripts to automate event attendance entry, saving staff an estimated 10 hours per week
- Conducted data analysis and reporting on division events and programming impact
- Provided operational support to the assessment team

MU Housing — August 2025 — Present

Community Assistant — Columbia, Missouri

- Documented and submitted incident reports following established procedures
- Served in overnight on-call rotation responding to emergency situations
- Developed personal relationships with graduate student residents
- Provided operational and administrative support for apartment complex operations

RESEARCH

University of Missouri — April 2024 — Present

Undergraduate Researcher — Columbia, Missouri

- Developed novel algorithm for computing turn-radius restricted paths
- Implemented a parallelized graph construction algorithm in C++
- Built visualization tools using Python
- Analyzed algorithm correctness and solution accuracy through comprehensive testing

LEADERSHIP AND INVOLVEMENT

Residence Halls Association — Mar 2024 — Mar 2025

Vice President — Columbia, Missouri

- Managed an executive board of 11 students, delegating tasks and overseeing project execution
- Analyzed event data from the year and created impact reports
- Allocated semesterly budget of over $100,000 to various organization needs

PROJECTS

Minnesota River Flood Extent Mapping — Oct 2024 — Dec 2024

- Analyzed SAR imagery datasets and built classification tool to detect water
- Performed change detection before and after scenes
- Created map visualization of water extent changes in ArcGIS

SKILLS

Programming Languages: Javascript, Typescript, C++, C, Python, Java, HTML, CSS, C#
Frontend Frameworks: React.js
Testing Frameworks/Tools: Vitest, React Testing Library
Tools and Technology: CMake, Git, Linux, WSL