

ISAAC RIDER

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Personal Website: isaacrider.github.io

Education

University of Missouri

Aug. 2022 – May 2026

Bachelor of Science in Computer Science, Minor in Mathematics

Columbia, Missouri

Undergraduate Research Assistant

Jun. 2024 – Present

Department of Electrical Engineering and Computer Science

University of Missouri

- Developing computational models for bladder simulation, integrating neurophysiological data.
- Implementing Python-based algorithms for analyzing neural control mechanisms in bladder function.
- Collaborating with faculty to refine methodologies and document findings.

Experience

Lawn Care (Self-Employed)

May 2018 – Present

Lawn Care Provider

Lee's Summit, Missouri

- Managed residential and commercial lawn care services, ensuring professional landscaping.
- Maintained and repaired lawn equipment, minimizing downtime and improving efficiency.

Projects

CropAI

Nov. 2024

Python, APIs, HTML, JavaScript, AI

- Developed AI-driven crop advisory tool integrating Google Images, ChatGPT, OpenMETRO, and SoilGrids.
- Optimized ChatGPT prompts for precise and context-aware agricultural recommendations.

Dungeons and Dragons Game

Apr. 2024

Java, Eclipse

- Designed an interactive D&D game with object-oriented principles for modularity.
- Implemented polymorphism to create unique character abilities and improve game flexibility.

F1 Database

Apr. 2024

Java, SQL, MySQL

- Developed a relational F1 database enabling race data analysis and trend predictions.
- Created complex SQL queries for driver and team performance insights.

Technical Skills

Languages: Python, Java, C, SQL, HTML

Developer Tools: VS Code, Eclipse, IntelliJ, Google Cloud Platform

Technologies/Frameworks: Linux, GitHub, MySQL

Leadership & Extracurricular

Chi Alpha Campus Ministries

Aug. 2023 – Jan. 2025

Vice President

University of Missouri

- Led a weekly Bible study group, fostering spiritual discussions and community engagement.
- Organized outreach initiatives, increasing student involvement.

Boy Scouts of America

Aug. 2018 – Present

Assistant Scoutmaster

Independence, Missouri

- Mentored younger scouts through rank advancements and leadership training.
- Led outdoor expeditions, teaching survival and navigation skills.