

ISAAC RIDER

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Personal Website: isaacrider.github.io

Education

University of Missouri

Bachelor of Science in Computer Science, Minor in Mathematics

Aug. 2022 – May 2026

Columbia, Missouri

Experience

Applications Development Intern

University of Missouri – Applications Development Team

May 2024 – August 2024

Columbia, Missouri

- Developed and maintained features for a university course management system using **Java** and **Vaadin Flow 24**.
- Worked independently to design UI components and implement backend logic, supporting faculty and staff workflows.
- Followed university development practices and collaborated with senior developers for code reviews and deployment.

Undergraduate Research Assistant

Department of Electrical Engineering and Computer Science

University of Missouri, Columbia, Missouri

June 2024 – Present

- 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.

Lawn Care (Self-Employed)

Lawn Care Provider

May 2018 – Present

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

Python, APIs, JavaScript, AI

Nov. 2024

- An AI-powered tool for generating crop care advice from images and environmental data.
- Developed AI-driven crop advisory tool integrating Google Images, ChatGPT, OpenMETRO, and SoilGrids.

Dungeons and Dragons Game

Java, Eclipse

Apr. 2024

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

Technical Skills

Languages: Python, Java, C, SQL, HTML

Frameworks/Tools: Vaadin Flow 24, Google Cloud Platform, GitHub, MySQL, Eclipse, IntelliJ, VS Code

Platforms/Systems: Linux, Windows

Leadership & Extracurricular

Chi Alpha Campus Ministries

Vice President

Aug. 2023 – Jan. 2025

Columbia, Missouri

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

Boy Scouts of America

Assistant Scoutmaster

Aug. 2018 – Present

Independence, Missouri

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