

Rittvic Ray

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EDUCATION

University of Wisconsin-Madison | GPA: 4.0

Bachelor of Science in Computer Sciences

Madison, WI

Sept. 2022 – May 2026

PROJECTS

Class Bot | *Java, Maven, Git, JSoup, Plotly, PostgreSQL, Docker*

July 2022 – Present

- Created an **asynchronous, multi-threaded** Discord bot to search for courses, professors, and more at UW-Madison
- Scraped relevant data from multiple websites using **JSoup** to store in **PostgreSQL database**
- Implemented a **text search system** on the database using trigrams and indexes. Average response time of **1-3 ms** across **11k documents**
- Visualized courses' average GPA over **15+** years with **Plotly** to show trends
- Containerized the bot and database using **Docker Compose** to deploy on any infrastructure
- Leveraged **GitHub Actions** to build the **Docker** image upon a new release for continuous delivery

Personal Site | *JavaScript, HTML, CSS, Bootstrap*

February 2023 – Present

- Created a one-page static website that highlights my projects and socials
- Leveraged **CSS Flexbox** to ensure responsiveness across all viewports
- Implemented a **theme toggle mode** (light and dark) based on user preference with **DOM scripting**

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, HTML/CSS

Frameworks and Databases: Svelte, Bootstrap, Tailwind, PostgreSQL

Developer Tools: Git, GitHub Actions, Maven, Docker, Docker Compose, IntelliJ, Vite, WebStorm, PyCharm

Libraries: Jackson, Selenium, JSoup, HikariCP

OTHER

Community Event Volunteer

Feb. 2017 – May 2022

- Organized 50+ local events at Naperville Public Library
- Setup and troubleshooted computer equipment
- Assisted event hosts and attendees with any technical needs