Richard Feng

949-378-8239 | richardfeng101@gmail.com | https://www.linkedin.com/in/rtfeng101/ | Madison, WI

Current third year student double-majoring in computer science and data science. Planning to graduate May 2026. Seeking in-person or remote software engineer/backend developer role.

TECHNICAL SKILLS AND TOOLS

Languages:	Java | Python | SQL | C | C++ | HTML + CSS | JavaScript| TypeScript | R
Frameworks:	React | NextJS | PyTorch
Tools:	Git | Jupyter
Platforms:	Windows | macOS | Unix | Netlify

PROJECTS AND EXPERIENCE

Personal Portfolio Website **Aug 2024 - Current**

Built a portfolio website from scratch using React. Developed using NextJS and TypeScript and hosted on Netlify. Includes personal information, contact information, resume, and more. Work in progress.

- Learned how to create an interactive website for portfolio with flexible U/I elements

Lobby Organizer Discord Bot **June 2024 - July 2024**

Built a Discord bot that streamlines the lobby creation processes for games. Allows for users to interact with the bot to create lobbies and find players to fill lobbies utilizing Discord API. Ran from remote laptop.

- Built commands that allows users to display and create lobbies with game title and starting time
- Increased ease of use through reactions and voice channel commands to interact with the bot to create simple and clean U/I

Minirel Database **March 2024 - April 2024**

Jointly designed and developed a single-user DBMS that can execute simple certain SQL queries using C++ through remote UNIX machines according to specifications. SQL parser and disk supplied.

- Worked with a peer to design a database through relation tables and relational graphs
- Created buffer manager, heapfile manager, and relational operators in partnership utilizing pages, heapfile scanners through linked lists, and SQL operations using filters.

Guided Intravascular Optic Analysis **May 2023 - Jun 2023**

Collaborated with Argus Science to create a visualizer app for their intervascular optic sensor using Python to display blood vessels in patients.

- Utilized bitmap output from optic machines and turned into video output
- Allowed for analysis on blood cholesterol through visual means

Bus Stop Finder **April 2023**

Backend/Algorithm Engineer

Created an app with development team to find the optimal bus route given a CSV. Utilized Dijkstra's according to specifications using Java. Presented project proposal and results.

- Suggested and integrated user-friendly commands to allow users to more efficiently plan out trips through multi-stop selection with front-end developers
- Enhanced workflow through documentation and assisted peers with debugging and unit tests

EDUCATION

UW Madison (Expected Graduation Date: May 2026)
GPA: 3.648 / 4.000

Bachelor of Science (BS) in Computer Sciences

Multi-Var Calc & Linear Alg | Multi-Var Calc & Diff Eq
Programming III (Java) | Machine Organization & Programming | Honors Intro to Algos
Database Management Systems | Intro to AI | Computer Graphics (INP)

Bachelor of Science (BS) in Data Science

Data Sci Programming II (Python) (INP) | Data Science Modeling II (R) (INP)