MEGAN R. BENDER

meg.bender@outlook.com | [Portfolio] | [LinkedIn] | [GitHub] | Minot, ND (Willing to Relocate)

Summary

Passionate and detail-oriented **Software Engineer** with hands-on experience in full-stack, iOS app design and development, and user-focused solutions. Skilled in scalable system architecture, clean UI design, and collaborative team environments.

Education

Bachelor of Science, Computer Science (Software Engineering Focus) | *May 2025*
Bachelor of Arts, Mathematics & Psychology | *May 2023*
Minot State University | Minot, ND
Honors: President's Honor Roll (2020-2023), Research Excellence Award (2021-2022)
Courses: Data Structures & Algorithms I & II, Web and Internet Programming, Software Engineering and Testing, Database Management, Computer Organization, UNIX Environment

Technical Skills

Languages: Swift, JavaScript, C++, C#, Python, x86 & MIPS Assembly (via coursework)
Frameworks/Tools: SwiftUI, React, Java Spring Boot, Node.js, Express, Bootstrap
Technologies: Xcode, Git, AWS, MongoDB, OAuth 2.0, Spotify API, OpenAI API, MySQL, UNIX

Projects

Personal Portfolio (Web Application) | *My portfolio!* | uploaded, but still in progress
- Built a multi-page personal portfolio using **React** and scoped **CSS modules**, focused on clean UI and responsive layout.
- Developed modular components (e.g., Hero, About, Projects) with smooth navigation and a user-friendly structure.
- Wrote all custom styling using CSS modules to maintain encapsulation and avoid global class conflicts.
- Configured **CI/CD pipeline** with **GitHub** and **AWS Amplify** via **Route 53**, enabling automated deployment and version control with **Git**.

MCDC Visitors Guide (iOS Application) | *GitHub*
- Designed and built an iOS application for the Magic City Discovery Center (museum) to assist visitor navigation and engagement.
- Created interactive map views and gallery pages using **SwiftUI** with MVC architecture.
- Integrated announcement popups, chatbot interface, and dynamic floor maps to enhance real-time user experience.
- Used **Agile Scrum**, modified **Kanban**, and **Git** to simulate a professional work environment and manage iterative tasks.

Rating Radar (back-end) | *GitHub* | *in progress*
- Creating a full-stack platform that aggregates product reviews across sites and displays sentiment data.
- Developed the backend logic **in Java Spring Boot**, with endpoints for search, **CRUD**, and user accounts.
- Designed **MySQL** schemas for user and review data; optimized query performance for scalable search.
- Writing unit tests and integrating **Swagger** for API documentation.

Experience

Behavioral Health Technician | Trinity Health
Minot, ND, 2020 – 2023
- Facilitated group and one-on-one sessions teaching mental health coping strategies, emotional regulation, and daily life skills. Collaborated with clinical staff to support treatment plans for diverse clients in behavioral health settings.

Lead Research Assistant | Department of Addiction Studies, Psychology, and Social Work
Minot State University, Jan 2021 – Dec 2023
- Conducted data collection, coding, and analysis using **SPSS** and **Excel**; co-authored manuscripts and presented solo at international and academic conferences.
- Contributed to grant writing and literature reviews to support ongoing faculty-led studies.

Student Co-PI | Department of Mathematics and Computer Science
Minot State University, 2022 – May 2023
- Co-led a faculty advised research project on mathematical modeling using **Python** (**NumPy**, **Pandas**, and **Matplotlib)** in **Jupyter Notebook;** validated simulations against datasets.
- Authored **LaTeX** reports and presented research findings to faculty and peers

Student Mentor & Peer Tutor | Looyenga Leadership Development Program & Academic Support Center
Minot State University, 2021 – May 2023
- Selected for faculty-nominated leadership program; mentored students in leadership and tutored psychology and statistics.
- Created study tools and delivered adaptive one-on-one and group tutoring sessions.

Useful Links

LinkedIn: https://www.linkedin.com/in/megan-bender-8400322b2/ |GitHub: https://github.com/meganbender|Portfolio: https://megan-portfolio.dev/