

RYAN SHAFER

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🌐 <https://github.com/RyMeep128>

SUMMARY

Software Engineer focused on C/C++ systems programming and full-stack web development, with experience building a Scheme interpreter, React applications, and automation tooling. Strong foundation in data structures, memory management, Git-based development, and measurable software delivery, strengthened by leadership experience in team coordination, training, and operations.

TECHNICAL SKILLS

Languages: C#, C, C++, Java, Python, JavaScript, TypeScript, SQL

Systems & Foundations: Linux, memory management, computer security, high-performance computing

Web Development: React, Angular, HTML, CSS, RESTful APIs, Spring Boot

Tools & Testing: Git, GitHub, Docker, VS Code, JUnit, CI/CD

PROJECTS

Scheme Interpreter

https://github.com/RyMeep128/Scheme_Interpreter

- Built a full interpreter in C, implementing the complete pipeline from tokenization and parsing to expression evaluation and interactive command-line execution.
- Designed custom memory management with mark-and-sweep garbage collection, dynamic data structures, file loading, and robust error handling to support a reliable language runtime

REST Assured Final Project

https://github.com/RyMeep128/REST_Assured-Final-Project

- Implemented inventory, catalog, and order APIs with asynchronous RabbitMQ order processing, refund/restock behavior, API gateway routing, and Docker Compose local orchestration.
- Added full-stack verification through GitHub Actions, including frontend build, Maven backend verification, Docker startup, RabbitMQ order-flow smoke testing, and artifact upload.

EDUCATION

Bachelor of Science in Computer Science – Minor in Mathematics

Bethel University | Arden Hills

May 2024-2026

EXPERIENCE

Software Engineer

Infinite Campus | Circle Pines, Minnesota

October 2026 - Present

- Don't know yet, started the job today :shrug:

Software Engineer Intern

CHS Inc. | Inver Grove Heights, Minnesota

May 2025 - Aug 2025

- Developed a Python-based automation script leveraging OpenAI to generate titles and descriptions for 1,962 database tables and 84,232 columns, raising catalog curation from 11% to 18% at the table level and 14% to 24% at the column level, significantly improving data discoverability.
- Implemented an admin feature displaying last-run Retail Order Summaries, enhancing operational visibility across 100+ locations and supporting hundreds of millions of dollars in business value.