

Zach Larsen

zachlarsen1050@gmail.com | 763-325-7071 | www.linkedin.com/in/zach-larsen

EDUCATION

University of Minnesota, College of Science and Engineering
Bachelor of Science, Computer Science, GPA: 3.7

Minneapolis, MN
May, 2026

SKILLS

Languages: Python, Java, C, C++, OCaml, R, HTML/CSS, Postgres

Technical Skills: Docker, Git, GitHub, Windows/WSL, Linux, VS Code, IntelliJ, Prisma, Agile/Scrum methodologies

Skills: Communication, Problem Solving, Team Collaboration, Attention to Detail, Customer Service, Ability to Learn

PROJECT EXPERIENCE

Gopher Guessr | *JavaScript, React, PostgreSQL, Prisma, Git*

09/24 – 11/24

- Worked with a team of 8 people to create our own version of GeoGuessr for the University of Minnesota to help teach new students about buildings and landmarks around campus
- Led the integration of a PostgreSQL database to efficiently manage data for Users, Photos, and GameStates, providing a reliable backend for core functionalities
- Implemented a Prisma ORM for a streamlined data interaction layer, enhancing usability for both developers and end-users
- Continuously maintained and optimized the database, adding new fields and structures to support evolving project needs and enabling diverse game modes through enriched photo data
- Utilized GitHub for effective version control

Transit Simulator | *Java, UML, JUnit Git*

10/24-11/24

- Collaborated in a Scrum-based workflow to design and develop a simulation model for trains and buses in Minneapolis
- Leveraged design patterns to facilitate feature extensibility, accelerating development by 25%
- Developed detailed UML diagrams to clarify system requirements, enhancing team communication and shared understanding
- Built comprehensive JUnit tests for all classes, ensuring code reliability and supporting seamless feature expansion

Posix-Archiver | *C, Docker, WSL*

08/24- 9/24

- Developed a simplified version of the Unix-based tar utility in C, handling file I/O through the stdio library
- Streamlined file I/O for efficient handling of 512-byte Posix-compliant archive blocks
- Focused on error handling, failure cases, and interoperability with standard Linux utilities
- Built and tested the project within a Docker container, ensuring an isolated and reproducible development environment

WORK EXPERIENCE

Technology Help Specialist | *University of Minnesota - Minneapolis, MN*

10/23-Current

- Provide technical support to faculty, students and staff both onsite and remotely, ensuring a timely and effective resolution
- Gained experience with technical troubleshooting and communication within a large professional IT Service Desk
- Manage multiple tasks and balance different areas of need while adapting quickly to new technologies

OTHER

Social Coding Club | Led collaborative initiatives with fellow programmers to design and develop community-focused projects aimed at driving positive impact and improving local solutions

Recipient of the Eagle Scout Award