# Samuel Breider

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## **EDUCATION**

### University of Minnesota

Minneapolis, MN

Bachelor of Science in Computer Science, GPA: 3.83

Aug. 2022 - May 2026

#### EXPERIENCE

#### Teaching Assistant

Jan. 2025 – Present

University of Minnesota

Minneapolis, MN

- Leading labs and office hours to assist 180+ students in learning the principles of computer science in C++.
- Enhancing my own programming and problem-solving skills by collaboratively resolving students' bugs and roadblocks.

# Software Development Intern

May 2024 – Aug. 2024

WEC Energy Group

Milwaukee, WI

- Engineered Application Manager, a database management tool handling CRUD operations on software logs, archives and metadata.
- Contributed to development of Watchdog, a service providing constant status feeds for over 200 high-impact programs.
- Utilized **VB** .**NET** and **Microsoft SQL Server** to deliver scalable, user-friendly solutions that improved the operational efficiency of more than **7,000** employees.
- Refactored and streamlined legacy SQL procedures, reducing processing times by up to 40%.
- Managed large-scale workflows using Azure DevOps and ensured version control through Git.

#### Projects

#### **Pro Football Reference API** | Go, Postman, Docker

- Built an external API servicing GET requests to 6000+ Pro Football Reference data tables.
- Documented, tested and managed API construction using Postman.
- Deployed project as a Docker image on an EC2 instance, automating build and deployment tasks with Powershell and Bash scripts.

#### Gopher GeoGuessr | JavaScript, Next.js, PostgreSQL

- Co-developed a game in which UMN students explore campus by guessing the locations of photos taken around Dinkytown.
- Designed user authentication system for 200+ active users, storing stats, game history, and user information in a PostgreSQL database.
- Engineered game modes, visual components and player touch-points in **Next.js** and **Tailwind**.

#### Package Delivery Simulation | C++, Docker, Git, UML

- Contributed to a **Scrum**-based workflow developing a simulation model for package delivery drones.
- Optimized travel paths across a graph-based coordinate plane using **A\*** and **Dijkstra's** algorithms, which decreased initial routing times by over **40**%.
- Crafted detailed UML diagrams and EARS requirements documents, enhancing clarity in system specifications and reducing development cycle overhead.

# SKILLS

Languages: Go, SQL, VB .NET, C++, C, Java, JavaScript, Python

Frameworks / Libraries: .NET, React, Next. is, Node. is, PyTorch, Flask, Pandas, Tailwind CSS, goquery

Tools: Docker, Git, Github, SQL Server Management Studio, Visual Studio, EC2

#### OTHER

**Social Coding**, *Member*: Led a network of programmers in developing *Gopher Major Planner*, *Gopher GeoGuessr* and other software solutions with a positive impact on our community.

**UMN Centennial Scholars**, *Scholarship Recipient*: Immersed myself in a scholarship program full of students who share my goals for innovation, achievement, and diversity in the professional and academic world.