Samuel Breider

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Education

University of Minnesota *Minneapolis, MN*

Bachelor of Science in Computer Science, ***GPA: 3.79*** Aug. 2022 - May 2026

Experience

Medtronic Sep. 2025 – Present

Software Engineering Extern *Minneapolis, MN*

- Building a custom **BERT** + **KNN** workflow that matches pacemaker log abnormalities with known bugs.
- Using the **Elastic Stack** and **Python** to serve model outputs.
- Improving the reliability of life-saving devices used by 300,000+ people.

University of Minnesota Jan. 2025 – Present

Teaching Assistant *Minneapolis, MN*

- Teaching **Python** and **C++** fundamentals to 900+ students through labs and office hours.

DraftKings Jun. 2025 – Aug. 2025

Software Engineering Intern *Boston, MA*

- Built **REST API** endpoints in **C#** and **ASP.NET** to power navigation throughout Pick6, each handling 2 million consumer requests per day.
- Used **Apache Kafka** and **RabbitMQ** to build low-latency messaging systems, allowing real-time communication across microservices.
- Leveraged **Docker**, **Kubernetes** and **Jenkins**-based CI/CD pipelines to automate release and scaling workflows.

WEC Energy Group May 2024 – Aug. 2024

Software Development Intern *Milwaukee, WI*

- Engineered a database management **API** that handles CRUD operations on internal logs, archives and metadata.
- Utilized **VB.NET** and **Microsoft SQL Server** to reduce data retrieval and rendering times by up to 40%.

Projects

Gopher Guessr | *JavaScript, Next.js, PostgreSQL*

- Led development on a campus-wide location guessing game, played 15,000+ times by UMN students.
- Integrated **WebSocket** protocols to reduce leader board rendering times by 90%.
- Designed an authentication system for 2,000+ unique users, storing stats, game history, and user information in a **PostgreSQL** database.

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

- Built a **Go** web-scraping API that made 10,000+ Pro Football Reference HTML tables accessible in JSON format.
- Containerized project with **Docker** and automated **AWS EC2** deployment through **Bash** scripting.

Technical Skills

Languages: C#, Python, Go, Java, TypeScript, JavaScript, C++, C, VB.NET, Bash

Cloud & DevOps: Docker, Kubernetes, AWS EC2, AWS Lambda, DataDog, Git, GitHub, Postman, Jenkins

Data & Messaging: Apache Kafka, PostgreSQL, MySQL, SQL Server, WebSockets, RabbitMQ

Frameworks & Libraries: ASP.NET, React, Next.js, Node.js, Flask, Tailwind CSS

Involvement

Social Coding, *Member*: Led a network of programmers in developing *Gopher Major Planner*, *Gopher Guessr* and other software solutions with a focus on positively impacting our school community.

UMN Centennial Scholars, *Scholarship Recipient*: Admitted into merit-based scholarship program focused on innovation, achievement, and diversity in academic and professional spaces.