

# Owen Ratgen

Minneapolis, MN

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## EDUCATION

### University of Minnesota

Master of Science in Computer Science

- **Cumulative GPA:** 3.915

Bachelor of Science in Computer Science

- **Cumulative GPA:** 3.633, **Technical GPA:** 3.569

Minneapolis, MN

Expected Graduation: December 2025

September 2020 - May 2024

## EXPERIENCE

### Software Engineering Intern

Trane Technologies | TypeScript, React.js, Jest, MUI, GitLab

May 2024 – Present

St. Paul, MN

- Built an internal frontend library to standardize React components and applications across various internal tools, resulting in a 27% decrease in page loading time due to efficient component design and lazy loading strategies
- Decreased backend feature development time by 40% through simple, reusable components and applications
- Adopted by 5+ other teams within the company enhancing cross-team collaboration and consistency

### Software Engineering Intern

SPS Commerce | TypeScript, Python, GraphQL, Node.js, Jest, GitHub

June 2023 – December 2023

Minneapolis, MN

- Streamlined TypeScript application by introducing GraphQL, led to an 80% increase in developing efficiency
- Led efforts on refactoring code from Gramps to Apollo Server on a team of 3 other interns
- Enriched application by migrating and adding a total of 23 data sources to enhance query management

### Software Development Intern

Infor | JavaScript, Java, JUnit, SQL, Git

June 2022 – August 2022

Remote

- Developed a client facing process monitoring tool for user-inputted information, reducing the time users spent searching for orders by 50% through a centralized filtering system
- Performed integration testing using JUnit for 15+ different features in order to ensure feature functionality

## PROJECTS

### Virtual Pantry | Azure, React.js, Node.js, Bootstrap, GitHub

March 2024 - May 2024

- Deployed a dynamic web application onto Azure to help assist users with meal planning by utilizing ingredients available in their pantry
- Leveraged REST API to fetch recipe data from Spoonacular API, parsed through the JSON, and stored over 10,000+ entries in Azure Cosmos DB
- Enhanced user experience through an intuitive user interface using React.js and Bootstrap libraries

### Social Media Caption Classifier | Python, TensorFlow, PyTorch, Pandas

September 2023

- Engineered a BART model featuring one-hot encoding and tokenization to effectively classify a caption from a result of a sports game as either a win, loss, or overtime loss
- Curated the training dataset with relevant data and achieved an overall accuracy of 76.67%

## TECHNICAL SKILLS

**Experienced Languages:** Python, Java, JavaScript

**Frameworks:** React.js, Node.js, Flask, Jinja2, Jest, JUnit

**Developer Tools:** Azure, Docker, Jira, GitHub, GitLab

## LEADERSHIP

### Academic Chair

The Beta Pi Chapter of The Beta Theta Pi Fraternity

January 2024 – Present

Minneapolis, MN

- Increased Chapter GPA by 13% by creating an academic competition within the fraternity and setting up plans for members who did not meet the GPA requirement
- Cultivated academic growth by holding 3 separate workshops per semester for the chapter showing them the useful resources that the University of Minnesota has to offer