Owen Ratgen

Minneapolis, MN

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EDUCATION

University of Minnesota Minneapolis, MN
Master of Science in Computer Science *Expected Graduation: December 2025*
- **Cumulative GPA:** 3.915

Bachelor of Science in Computer Science *September 2020 - May 2024*
- **Cumulative GPA:** 3.633, **Technical GPA:** 3.569

EXPERIENCE

Software Engineering Intern May 2024 – Present
Trane Technologies | TypeScript, React.js, Jest, MUI, GitLab *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 June 2023 – December 2023
SPS Commerce | TypeScript, Python, Unit Testing, GitHub *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 June 2022 – August 2022
Infor | JavaScript, Java, JUnit, SQL, Git *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, GitHub, Bootstrap* 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
- Enhanced user experience through an intuitive user interface using React.js and Bootstrap libraries to provide
- Fetched recipes and food data from Spoonacular API and stored the information in a Azure Cosmos DB

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 January 2024 – Present
The Beta Pi Chapter of The Beta Theta Pi Fraternity *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