

Owen Ratgen

Minneapolis, MN

651-210-0149 | ratgenowen@gmail.com

linkedin.com/in/owen-ratgen | github.com/OwenRatgen | owenratgen.github.io

TECHNICAL SKILLS

Programming Languages: TypeScript, Java, Python

Full Stack: AWS, React.js, Node.js, SQL, NoSQL, Playwright, Restful APIs, GraphQL, Docker, Kubernetes

Cloud Platforms: AWS CDK, Pulumi, S3, EC2, CloudFormation, API Gateway, DynamoDB, Lambda Functions

Certifications: AWS Certified Cloud Practitioner, AWS Solutions Architect Associate

EXPERIENCE

Software Engineer

May 2025 – Present

Trane Technologies | *TypeScript, React.js, Node.js, AWS, Docker, Grafana*

St. Paul, MN

- Architected AWS infrastructure for a Field Defect project that analyzes equipment pain points for the Field Defect Application team, **eliminated 93% of time needed for manual data processing**
- Developed a live transportation visualization platform that **tracks real-time locations of high-value assets worth \$400k-\$1m+**, to ensure asset protection
- Owned Trane Autonomous Controls application that evaluates building compatibility with Brainbox AI, introducing automated form processing and **reduced assessment time by 70%**
- Partnered with Product Managers to align on technical requirements and accelerate issue resolution

Founder

March 2025 – Present

Creevo.app | *TypeScript, React.js, Node.js, GCP, LangChain, Playwright*

Remote

- Secured **\$200k+ in early-stage resources** through pre-seed funding from pitch competition wins and admission to Google's competitive startup program
- **Designed and maintained cloud architecture for a full-stack application** including frontend, backend APIs, ML model, and real-time game hosting infrastructure

Software Engineer Intern

May 2024 – April 2025

Trane Technologies | *TypeScript, React.js, AWS, Grafana, Docker, Kubernetes*

St. Paul, MN

- Implemented Kubernetes-based architecture on AWS EKS managing 20+ services, **reducing infrastructure costs by 20% through auto-scaling and resource optimization**
- **Developed monitoring and observability solution using Grafana**, providing real-time insights into system performance across distributed services
- Created a React Component library with Storybook documentation, **adopted by 4+ engineering teams and reduced development time by 40%**

Research Assistant

September 2024 – May 2025

DMLSys Lab | *LangChain, RAG Systems, Prompt Engineering*

Minneapolis, MN

- Utilized LLMs in the Cloud and System to interact with each other to automate Cloud Resource Management
- Designed and **executed 250+ prompt scenarios** covering cloud management tasks to increase model accuracy

Software Engineer Intern

June 2023 – December 2023

SPS Commerce | *TypeScript, React.js, Node.js, GraphQL, Jest*

Minneapolis, MN

- Developed GraphQL Explorer tool utilizing schema stitching to allow developers to **add to schema 80% faster**
- Led efforts on refactoring and improving code from Gramps to Apollo Server, collaborating with 3 engineers to **consolidate 20+ data sources into unified GraphQL schema**

Software Development Intern

June 2022 – August 2022

Infor | *JavaScript, React.js, Java, Spring Boot, JUnit, jQuery*

Remote

- Developed a client facing process monitoring tool for user-inputted information, **reducing the time users spent searching for orders by 53%** through a centralized filtering system
- Built comprehensive test suite using JUnit for 15+ application features that **reduced production bugs by 35%**

EDUCATION

University of Minnesota

Minneapolis, MN

Master of Science in Computer Science - Distributed Systems + Machine Learning

September 2023 - May 2025

Bachelor of Science in Computer Science

September 2020 - May 2024