

# FLETCHER GORNICK

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## EXPERIENCE

### Software Engineer Intern, API Platform

#### Target Technology

📅 Jun 2022 – Aug 2022    📍 Minneapolis, MN

- Developed a program to dynamically generate reverse proxy configuration. Used to map incoming traffic to specified backend clusters. Written in Go and provides configuration for Envoy Proxy.
- Worked in an Agile team of 10, collaborating and communicating with other teams in different disciplines.

Go   Docker   Kubernetes   Fastly   Ruby   Hugo   SQL  
Node.js   JavaScript   Git   Jenkins   Python

### Undergraduate University Research

#### University of Minnesota, Twin Cities

📅 Jan 2022 – May 2023    📍 Minneapolis, MN

- Developed program to automatically generate Parson's style problems for entry level CS students.
- Questions are outputted to QTI and GIFT format for use in Canvas and Moodle courses respectively.
- Optionally, introduces mutations to input code to provide a variety of question types, with hopes of improving students ability to analyze code.

Python   Express   Shell Scripting   XML   Gift   QTI

### Undergraduate Teaching Assistant

#### University of Minnesota, Twin Cities

📅 Jan 2022 – May 2023    📍 Minneapolis, MN

- Introduced C++ as well as basic concepts of object oriented programming.
- Taught design patterns to speed up development process and SOLID design principles for project maintainability.
- Showed how to structure projects with Unified Modeling Language (UML), stressing the importance of program design/analysis.

C++   Design Patterns   UML   JavaScript   HTML   Docker

## EDUCATION

### University of Minnesota, Twin Cities

#### B.S. in Computer Science & Mathematics

📅 2019 – 2023    📍 Minneapolis, MN

Cumulative GPA: 3.96/4.0

#### M.S. in Computer Science

📅 2023 – Present    📍 Minneapolis, MN

**Relevant Coursework:** Operating Systems, Algorithms, Software Engineering, Internet Programming, Graph Theory, Cryptology, Linear Codes, Matrix Theory

## PROJECTS

### Dynamic Proxy

#### Envoy proxy configuration generator

📅 July 2022    🔄 fmgornick/dynamic-proxy

- Program for users to send configuration to envoy proxy at runtime, without the need to restart
- This allows us to add/delete/change the upstream destination of incoming traffic dynamically for real-time configuration updates

Go   Envoy   bash   OpenSSL   Docker

### Search & Rescue Simulation

#### Drone physics simulation written in C++

📅 Apr 2021    🔄 fmgornick/drone-sim

- A program that takes a 3D texture of Minneapolis and simulates drone movement with the use of design patterns and object oriented programming

C++   JavaScript   Docker   Doxygen

### Graph Data Structure Library

#### provides collection of graph algorithms

📅 May 2023 – Present    🔄 fmgornick/fmgraph

- Made my own implementation of a graph data structure and added as many graph algorithms as I remember learning in my Graph Theory class

Rust   petgraph   itertools   graphviz

## SKILLS

Skills I've worked with directly. Ordered by approximate proficiency/relevance.

### Programming & Other Languages

C   C++   Rust   Python   TypeScript  
Java   Haskell   Bash   Go   SQL  
HTML+CSS   LaTeX   OCaml   Assembly  
Kotlin   R

### Frameworks, Engines, Libs, & Databases

Node.js   React   NumPy   MySQL  
OpenCV   TikZ   petgraph   Actix  
Envoy

### Development Tools & Environment

Git   UNIX/Linux   GNU   Vim   Emacs  
Tmux   Jenkins   AWS   Doxygen