

# Christopher Gregorian

csgregorian.com | csgregorian@gmail.com | github.com/csgregorian | 226 280 0284

## EXPERIENCE

### Stripe—Software Engineering Intern

*May–Aug 2018  
San Francisco, CA*

- Developed a dynamic volume limit for new merchants that scales risk exposure based on historical data, eliminating the month-long waiting period for new payment methods.
- Prototyped machine learning models using deep feature synthesis to identify patterns in transaction fraud on non-card payment methods.

### Hack the North—Organizer and Backend Developer

*Feb 2018–present*

- Scaled the dashboard backend to handle nearly 2 million requests over the course of the hackathon, including meal tracking, sponsor notifications, live updates, and mentorship requests.
- MCed the opening and closing ceremonies for 1000+ hackers and sponsors.

### Shopify—Software Developer Intern

*Sept–Dec 2017  
Ottawa, ON*

- Spearheaded a project revamping the refunds system in the Rails core app, proposing a technical design and iterating on it with a multidisciplinary team to ship within a deadline.
- Developed Kubechaos, a chaos engineering tool to randomly kill running Kubernetes pods in a production environment to incentivize resiliency in critical applications.

### Shopify—Production Engineering Intern

*Jan–Apr 2017  
Ottawa, ON*

- Developed an automated DDoS mitigation method to intelligently identify and block malicious traffic on NGINX load balancers, protecting the platform against attacks during flash sales and Black Friday/Cyber Monday.
- Classified traffic patterns in real-time by creating a distributed system in Go to process millions of request logs per minute in parallel from a Kafka cluster.

## SKILLS

Languages Python, Go, Ruby, Javascript, Rust, C++, HTML/CSS  
Tools Rails, Git, Linux/Bash, Kubernetes, Flask, SQL, Splunk, Kafka

## PROJECTS

Pyshop Interactive image editor built in Python with layers, filters, and transparency.  
Raveforms Audio visualizer written in C++, applying Fourier transforms to raw samples.  
Ru.sh Interactive command shell written in Rust.  
Life.JS Real-time collaborative implementation of cellular automata in Javascript.

## AWARDS

1<sup>st</sup> Place Sandford Fleming Debate Competition  
1<sup>st</sup> Place Waterloo Engineering Software Competition  
2<sup>nd</sup> Place Ontario Engineering Software Competition

## EDUCATION

University of Waterloo  
Systems Design Engineering 2021