Christopher Gregorian

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SKILLS

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

EXPERIENCE

Software Developer Intern at Shopify   September to December 2017

▸ Spearheaded a project revamping the refunds and returns 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 and measure the impact to incentivize resiliency in critical applications.

▸ Refactored the synchronizer to batch requests from third party providers such as Amazon, decreasing inventory delay and eliminating the risk of overselling for large merchants.

Production Engineering Intern at Shopify   January to April 2017

▸ 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 highly concurrent system in Go to process millions of request logs per minute from a Kafka cluster.

Organizer at MasseyHacks   January to May 2016

▸ Organized and emceed Canada's first MLH-official high school hackathon.

PROJECTS

Pyshop	Interactive image editor built in Python, featuring layers, filters, and transparency.
Raveforms	GPU-driven audio visualizer written in C++, applying Fourier transforms to raw samples.
FBAnalyze	Suite of analytics tools to find time, keyword, and emoji patterns in messages.
Life.JS	Real-time collaborative implementation of cellular automata, with JS and WebSockets.
Fractals	3D fractals recursively generated using Three.js as an experiment in computational art.

AWARDS

First Place	Sandford Fleming Debate Competition
First Place	Waterloo Engineering Software Competition
Second Place	Ontario Engineering Software Competition

EDUCATION

University of Waterloo

Systems Design Engineering