

Grant SELTZER RICHMAN

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<https://grant.pizza>

PROFESSIONAL SKILLS

Love Working With: Go, eBPF, Linux internals, Bash, Git, Security
Experienced With: gRPC, terraform, Python, C, Haskell
Interested In: Public Speaking, Anti-cheat software, Sabermetrics

WORK EXPERIENCE

FEB 2019 - **Oscar Health** - Software Engineer (Security)
present

- * Wrote eBPF-based sensors for cloud centos servers to monitor security information and performance benchmarks.
- * Led the roll-out of osquery to all Oscar workstations. Made multiple open source contributions to the upstream project to help with macos compatibility.
- * Created a system for efficient and performant security auditing of entire workstation fleet using osquery.
- * Created and actively run a company-wide monthly internal tech talk series.
- * Made a contribution to the Go language runtime fixing DNS resolution logic.

MAR 2017 - **Capsule8** - Software Engineer
Feb 2019

- * Collaborated on designing and implementing a highly scalable microservice system for linux endpoint protection written in Go.
- * Built the command line interface for controlling all of the companies offerings in Go.
- * Conducted extensive research necessary for creating intrusion detections. Topics include seccomp, SELinux, apparmor, memory corruption, linux tracing, cgroups, and namespaces.
- * Implemented a comprehensive benchmarking pipeline for measuring macro and micro benchmarks of all of the companies systems over time.
- * Wrote extensive internal and external documentation for system design, architecture, debugging, and usage.

MAY 2016 - **Red Hat** - Software Engineer Intern (*Container Security*)
Feb 2017

- * Developed security enhancements and feature implementations for container runtime/build tools used in OpenShift commercial offerings.

EDUCATION

MAY 2017 **B.S. in Computer Science and Applied Mathematics**
UNIVERSITY AT ALBANY, STATE UNIVERSITY OF NEW YORK

CONFERENCE SPEAKING

2020 **Gophercon** - Tracing Go Programs with eBPF
2019 **KubeSec, Hushcon Seattle** - The Problem with Sandboxing Solutions
2017-20 **Kubernetes NYC, Docker NYC, NCC Open Forum, Hack && Tell**

OPEN SOURCE

Weaver AUTHOR * A dynamic debugging tool for fine-grained tracing of Go program execution using uprobes and eBPF.
Karn AUTHOR * An intuitive set of high level entitlements that translate to Seccomp filters for containerized and non-containerized Linux applications.
go-disass AUTHOR * A fully functioning disassembler, and a tool for finding ROP gadgets.
Go CONTRIBUTOR * Added support for using libSystem bindings for DNS resolution when compiling static binaries on Darwin hosts.