
EXPERIENCE

- **Akamai Technologies** Cambridge, MA
 - *Senior Software Engineer II* *Nov 2011–present*
 - **EdgeCloud Platform Team (Feb 2020–present)**: Built a configurable, composable, and dynamic firewall manager for VMs built on iproute2's tc. Modeled after AWS Security Groups. Backend daemon process provides billing/reporting data for customers. Part of a platform that generates 1.5M+USD/month. 1000 node worldwide deployment (design, implementation; Haskell, tc, libvirt, Linux networking)
 - **Cloud Services (Mar 2019–Feb 2020)**: Deployed an in-house AWS ElastiCache replacement based on Redis. Includes high availability, secure client access/replication via a service mesh, wrote all tooling, testing, monitoring, documentation (design, implementation; Go, Docker, Kubernetes, Istio, Telegraf, Vault)
 - **Purge Backend (Jan 2018–Feb 2019)**: Designed and re-wrote the content purge system's REST API backend in Go. Reduced server footprint by 1/10 with 100 times increase in request throughput. Handles largest volume of platform API requests (design, implementation; Go, Python)
 - **mPulse Migration (May 2017–Dec 2018)**: Key member in transitioning SOASTA's mPulse product to the Akamai Platform following the acquisition. Operationalized 5 months post-purchase
 - **Real User Monitoring (Jan 2014–May 2017)**: Core member in building out a new data warehouse backend to take in user performance metrics in near-real time. 400 node deployment. Collects ~1 terabits/day. Aided in proving value of web site performance data before SOASTA acquisition (design, implementation; Haskell, Go, C, Perl, Kafka, Apache Thrift, Apache Zookeeper, Apache Mesos, Docker; to a lesser extent: CephFS, Cassandra, HDFS)
 - **Value Confirmation Reporting (2012–2013)**: Web Application to build reports for retaining customers. Shows value over time by summarizing traffic, geographic usage, and volume (design, implementation; Go, PostgreSQL, Bootstrap)
 - **Distributed Data Collection (2011–2012)**: Key member to build a dynamic ad-hoc data parsing, classification and aggregation system into a legacy big-data reporting/billing application. Processes petabytes daily (implementation; C, C++, Perl, XML)
- **Everest Gaming/CIDC** Cambridge, MA
 - *Software Engineer - Poker Gaming Division* *Nov. 2009–Oct. 2011*
 - **Infrastructure & system improvements**: Maintain, bug fix, extend high performance Linux based online poker back-end servers (C++, C); migration to managed Perl environments
- **Opus Healthcare Solutions** Austin, TX
 - *Software Engineer - Engineering Department* *May 2007–Aug. 2008*
 - **Clinicals Application**: Features and bug fixes for the 2.2 release. Medical report migration from Crystal Reports to PrinceXML
- **Polycom** Austin, TX
 - *Intern/Contractor - Engineering Department* *Summer 2004 & 2005/May 2006–March 2007*
 - **Process Improvements**: Software & hardware testing, system monitoring, and lab maintenance; developed AccuRev triggers the entire engineering department rely on for daily peer code reviews.

SKILLS

- **Languages (proficiency / 5)**: Haskell (4), Rust (3), Go (5), C (3), SQL (2), Perl (5), Shell Scripting (3)
- **Computer and OS**: Linux / BSD (4), Windows (2), Mac OS X (2)
- **Open Source Contributions**: github: github.com/adamflott, Haskell / Hackage author: hackage.haskell.org/user/adamflott, Perl / CPAN author: search.cpan.org/~aflott

EDUCATION

- **University of Texas - San Antonio** San Antonio, TX
 - *Fall 2003–Fall 2006* *Attended 2.5 years pursuing a degree in Computer Science*