

EXPERIENCE

- **iStreamPlanet (Remote)**
Technical Lead / Senior Software Engineer - Infrastructure and Tooling August 2019 - Present
 - Lowered AWS cost by 6 digits monthly by improving applications to use spot instances with zero downtime
 - Championed and supported team transitions to using Infrastructure as Code tooling and solutions
 - Developed company wide GitOps Kubernetes PaaS which enabled self service and auditable infrastructure
 - Implemented distributed tracing across several microservices, reducing incident resolution time
 - Integrated fully automated CI / CD pipelines to reduce manual deploy time from hours to single digit minutes
 - Migrated Go microservices from Distelli managed static EC2 instances to auto-scaling AWS EKS + CodeFresh
 - Increased sprint velocity of teams by upwards of 25% by improving / standardizing developer experience tooling
 - Consistently rated by 360 review feedback to be one of the top technical ICs and communicators in company
- **Conga**
Technical Lead / Senior Software Engineer - Machine Learning / Platform Engineering January 2018 - August 2019
 - Lead full-stack development, and launch of new product for ML inferences on contracts (Conga AI Analyze)
 - Administered TeamCity server and championed company wide adoption of CI / CD best practices
 - Converted manual deployment to automated TeamCity + Spinnaker deployment, saving hours per deployment
 - Lead company wide technical offsites with tech leads about Docker, Kubernetes, and Cloud Native concepts
 - Lead conversations about designing and standardizing career titles and growth across the organization
- **FullContact Inc**
Software Engineer II - Data Platform July 2017 - January 2018
 - Migrated microservices architecture from Amazon ASGs to Docker + Kubernetes
 - Designed, trained, and deployed a text classifier for determining the organization and department for a job title
 - Implemented Schema.org support in data scraping pipeline, resulting in 14% lift in data extracted from websites
- **Josh.ai**
Software Engineer - Full-stack / Android June 2015 - July 2017
 - Created Python / Flask full stack solution for interfacing with home automation system, deployed to Heroku
 - Created native Android app for real time communication with home automation system over a WebSocket
 - Wrote C++ 11 for LAN based device integrations and control
- **Northrop Grumman Corporation**
DevOps Engineer (TS SCI with CI Poly / SSBI) June 2014 - June 2015
 - Wrote Python scripts for system monitoring across 40+ virtualized hosts on mission critical and secured networks
 - Automated silent installation of COTS products for live deployments saving hours of manual labor
- **University of Colorado, Colorado Springs**
Student Web Developer / Research Assistant / Teaching Assistant January 2013 - December 2015
 - Wrote perl / MSSQL / HTML5 / CSS3 responsive site to render class schedules
 - Researched reverse proxy implementations for NSF funded CS / Psychology joint research involving phishing
- **Northrop Grumman Corporation**
Software Engineer Intern Summers of (2011 - 2013)
 - (2013) Wrote Java / JavaFX plug-ins for real time histogram and scatter plots for multi-source UAV sensor data
 - (2012) Integrated nmap and metasploit into C# tool for one click reverse shell access
 - (2011) Created C# tool to traverse Twitter user graphs for calculating centrality of users

PROJECTS

- **Blog + Infra:** My personal SRE / DevOps playground. My blog and other projects are served by my personal Kubernetes cluster. Tools used: Jenkins, Spinnaker, Docker Registry, GitHub Actions, Pulumi, Terraform, Skaffold
- **EC2Throughput:** Learn what it means for an EC2 instance to have "Up to N Gigabit" network performance. All benchmarks are ran automatically and published to the website immediately after tests complete.
- **Actions Panel (Now retired):** Trigger your GitHub Actions manually. Users included Microsoft, GitHub, Docker, Tidal Music, MGM Resorts, and more before GitHub released this feature. Formerly at <https://www.actionspanel.app>
- **Reading Level:** Analyze your text with all of the common readability tests, all at once. <https://readinglevel.app>
- **typed-json-dataclass:** Zero configuration strong typing for data models and json SerDe your @dataclasses. On PyPI.