

EXPERIENCE

- **iStreamPlanet (Remote)**
Technical Lead / Senior Software Engineer - Infrastructure and Tooling August 2019 - Present
 - Converted manually managed resources in AWS, DataDog, etc into using Infrastructure as Code solutions
 - Developed company wide self service GitOps AWS EKS PaaS using Terraform and GitHub Actions
 - Implemented custom metrics and automatic horizontal scaling policies to respond to changes in load in real time
 - Built and scaled infrastructure to handle up to 10,000 QPS over 100 Gigabits per second
 - Implemented distributed tracing across several microservices, reducing incident resolution time
 - Integrated fully automated CI / CD pipeline to reduce manual deploy time from hours to single digit minutes
 - Lowered AWS cost by 6 digits annually by improving EC2 utilization, and removing unused resources
 - Migrated Go microservices from Distelli managed static EC2 instances to auto-scaling AWS EKS + CodeFresh
 - Recognized as an expert to teach all teams across the company about building resilient Cloud Native applications
- **Conga**
Technical Lead / Senior Software Engineer - Machine Learning / Platform Engineering January 2018 - August 2019
 - Administered TeamCity server and drove company wide adoption of CI / CD best practices
 - Converted manual deployment to automated TeamCity + Spinnaker deployment, saving hours per deployment
 - Lead full-stack development, and launch of new product for ML inferences on contracts (Conga AI Analyze)
 - Lead technical transition to use Docker + Kubernetes from AWS API Gateway + Lambda based architecture
 - Lead company wide technical offsites about Docker, Kubernetes, AWS, and other Cloud Native concepts
- **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 network
 - 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
- **Actions Panel:** Trigger your GitHub Actions manually. Users include GitHub and Docker. <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:** Automatically type validate and json SerDe your @dataclasses. On PyPI.