

## EXPERIENCE

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- **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
  - Converted manually managed resources in AWS, DataDog, etc into using Infrastructure as Code solutions
  - Developed company wide GitOps Kubernetes PaaS enabling self service, low friction, and auditable infrastructure
  - Built and scaled infrastructure and auto scaling to handle over 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
  - 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 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

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- **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 (Now retired):** Trigger your GitHub Actions manually. Users included Microsoft, GitHub, Docker, Tidal Music, MGM Resorts, and more. 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:** Automatically type validate and json SerDe your @dataclasses. On PyPI.