

## EXPERIENCE

---

- **Conga**
  - *Technical Lead / Manager / Senior Software Engineer - Machine Learning / Data Team* *January 2018 - Present*
    - Leading team of 3 developers and 2 data scientists to create full-stack Conga AI product
    - Leading development of Python, Scala, and Java based microservices for serving ML inferences on contracts
    - Lead technical transition to use Docker + Kubernetes from AWS Lambda architecture for deployment
    - Administrate TeamCity server and teach the concepts of CI / CD, increasing productivity across all of engineering
    - Designed and implemented AWS EMR / Apache Spark and AWS Lambda based machine learning pipeline
    - Configured linting, static code analysis, and test code coverage reporting for Python, Scala, and React code bases
    - Automated entire infrastructure deployment from taking days down to minutes
- **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 research pipeline, resulting in 4% lift in data extracted from websites
    - Improved data sanitation and data deduplication steps in high throughput, data based API
    - Maintained backend for Human-In-The-Loop OCR data annotation system
- **Josh.ai**
  - *Software Engineer - Full-stack / Embedded / 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
    - Ported C++ 11 codebase from being macOS specific to be platform independent
- **Northrop Grumman Corporation**
  - *DevOps Engineer (former TS SCI with CI Poly / SSBI)* *June 2014 - June 2015*
    - Wrote Python / Ruby scripts for system monitoring across 40+ virtualized hosts on a closed and secured network
    - Configured Apache reverse proxies for backend user PKI authentication to meet security compliance
    - 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 full stack site to render class schedule
    - Researched reverse proxy implementations for NSF funded CS / Psychology joint research involving phishing
    - TA for Software Engineering I. Graded assignments, held office hours for Ruby on Rails projects and assignments
- **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
    - (2012) Created network visualization of local virtual network which included OS / network information
    - (2011) Created C# tool to traverse Twitter user graphs for calculating centrality of users

## PROJECTS

---

- **typed-json-dataclass**: Automatically type validate and json SerDe your @dataclasses in Python3.7+. On PyPI
- **sanic-swagger**: Annotate your Sanic endpoints to generate a Swagger / OpenAPI compatible spec file. On PyPI
- **Multiple Choice AI**: Java / Dropwizard service that uses word2vec to answer multiple choice questions
- **SummaryBox**: Java / Dropwizard / OpenNLP service summarizes raw text into its most important topics
- **ColoradoGeekJobs**: Mongo / Express / React / Node job board for technology jobs in Colorado