

EXPERIENCE

- **Conga**
• *Software Engineer in Machine Learning* *January 2018 - Present*
 - Leading specifying IAM permissions to increase security
 - Developing lambda based architecture for serving ML models
 - Leading architecture for AWS EMR solution for big data batch ML model training
 - Wrote CloudFormation to automate full infrastructure deployment from days to minutes
- **FullContact Inc**
• *Software Engineer II* *July 2017 - January 2018*
 - Migrated microservices architecture from Amazon ASGs to Docker/Kubernetes
 - Created a text classifier for determining the organization/department for a job title
 - Built new features and fixed bugs for a Kafka and HTTP based high throughput distributed microservices architecture
- **Josh.ai**
• *Software Engineer* *June 2015 - July 2017*
 - Created Python/Flask full stack solution for interfacing with home automation system, deployed to Heroku
 - Created Android client for communicating with home automation system over a WebSocket
 - Wrote C++ for LAN based device integrations and control
 - Ported C++ codebase from being macOS specific to be platform independent
- **Northrop Grumman Corporation**
• *DevOps Engineer (former TS/SCI)* *June 2014 - June 2015*
 - Wrote Python/Ruby scripts for system monitoring across 40+ virtualized hosts on a secured network
 - Configured Apache reverse proxy for backend user PKI authentication
 - 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-in for real time histogram and scatter plot for Eclipse RCP intelligence tool
 - (2012) Integrated nmap and metasploit into C# tool for one click exploitation of virtualized systems
 - (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

- **Multiple Choice AI:** Java/Dropwizard service that uses semantic word vectors 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
- **Sudoku Solver:** C program that uses BFS, DFS, and Dijkstra's algorithm to solve sudoku puzzles
- **CircleTap:** Android game build with Unity which used Google Play leader boards and Google AdMob
- **Rank tracker:** Python scraper that sent SMS updates for a local 8-ball league
- **Macro engine:** C# application that simplified making Win32 API calls to automate keyboard and mouse usage. Scripts could be transpiled into independent C# applications for quick distribution

OTHER TECHNOLOGY

- AWS, Cassandra, Heroku, CircleCI, Jenkins, Kafka, Travis, MySQL, PostgreSQL, Redis