Aaron Batilo

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EXPERIENCE

Conga
Technical Lead / Senior Software Engineer - Machine Learning / Data Team *January 2018 - Present*
- Leading team of 5 developers and 2 data scientists to create full-stack Conga AI product
- Leading development of polyglot containerized microservices for serving ML inferences on contracts
- Teaching engineers throughout the company about Docker and Cloud Native concepts
- Taught leads on other product teams about serving a TypeScript + GraphQL application
- Lead technical transition to use Docker + Kubernetes from AWS Lambda architecture
- Converted bash based deployment to automated TeamCity + Spinnaker deployment, saving hours per 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

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
- **sanic-healthchecks**: Makes it easy to add a healthchecks server, independent of your main Sanic application. On PyPI
- **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