

Andy Freeland

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github.com/rouge8

SUMMARY Software developer passionate about using automation and repeatable processes to build and ship better software.

SKILLS Python, Ansible, Docker, Amazon Web Services, Django, Django REST Framework, Git, Bash, pytest, Jenkins

PROFESSIONAL EXPERIENCE **Software Developer** RedJack, LLC
Silver Spring, Maryland September 2012 – November 2015

- Collaborated with an asynchronous and distributed team of developers and analysts to build customer-facing and internal tools and services supporting network analysis:
 - Developed and deployed HTTP services wrapping hard-to-use and/or error-prone proprietary data sources.
 - Migrated a customer-facing web application from an untested mixture of Django templates and jQuery callbacks to an AngularJS application backed by a Django REST Framework-powered API, with unit and Selenium tests.
 - Introduced automated testing to customer-deployed analytics, improving accuracy and stability, and eliminating potential sources of error when debugging over the phone on systems without internet access.
 - Developed and deployed conversion pipelines to convert incoming network data into more accessible formats, allowing analysts to work with existing network analysis tools. Converters were deployed using EC2 auto scaling groups, spinning up and down in response to incoming data volume.
- Built and deployed tools to facilitate internal analyst access to data and enable rapid prototyping using Ansible, Docker, Jenkins, and Vagrant:
 - Migrated an existing mixture of shell, Puppet, and hand-configured systems to Ansible playbooks. In doing so, created a repository of reusable Ansible roles and playbooks, giving us automated and repeatable deploys across many of our services.
 - Automated initial customer reports, reducing runtime by 90% and replacing hours of analyst pre/post-processing with a parametrized Jenkins job, enabling us to provide reports to more customers more often.
 - Reduced reliance on customer operations team when deploying analytics by adopting a build process using Docker and PEX to produce a single executable zipfile containing the analytic along with all of its Python and C dependencies compiled for the customer platform.
- Helped define processes and best practices for development teams as we grew from 3 people to 10–15:
 - Introduced automated testing and code coverage measurements as key components of our development and review workflow.
 - Created a “Developer Handbook” to document our development and release processes, style guides, available resources, and common libraries.
 - Recruited and mentored junior and intern developers and analysts, helping them to land customer-facing features and integrating them into the team.
 - Led product and contracting teams to standardize on Trello for project management, enabling centralized tracking of tasks and deliverables.

EDUCATION **Bachelor of Arts in Computer Science** Carleton College
Northfield, Minnesota September 2008 – June 2012

- Graduated Magna Cum Laude and with distinction in major.

Critical Language Scholarship in Arabic Qasid Institute
Amman, Jordan June 2012 – August 2012

- Intensive summer program in Arabic, awarded by the State Department.