Madison Jesse Scott-Clary
Résumé

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Full résumé and C.V. available at makyo.io/resume

Madison Scott-Clary is a software engineer and writer living in Loveland, CO. She works heavily with web development, both on the front- and back-end, as well as with DevOps and cloud-based solutions. She strives to further her knowledge within both areas, as well as to expand into other fields both within and outside of software engineering and computers. As a supporter and proponent of Free and Open-Source Software, she is committed to providing the best tools and products that she can using FOSS and under OSI-approved licenses where appropriate.

Skills

Web development

- *Back-end technologies:* Python (using Flask and Django), Go (using Martini and Gorilla)

- *Front-end technologies:* standards compliant HTML5, CSS (standard, Sass, and Less), and JavaScript (vanilla, CoffeeScript, and Elm)

- Focus on data visualization with D3, nvd3, React, and Crossfilter

- Responsive application design through frameworks (Vanilla, Bootstrap, etc) or bespoke styling.

As a process maven, Madison is experienced and adamant about CI, test coverage and reporting, and code documentation. She has also worked with technical writing, blogging, and promotional writing for software products She has experience working in a management, mediator, and technical lead capacity, and is keenly interested in a diverse workforce, healthy work-life balance, and constructive social interactions within the workplace. As a trans woman, she is very focused on gender representation in tech.

Cloud and DevOps

- Experince with programatic deployment using juju with cloud providers: Amazon AWS, Google Compute Engine, and Microsoft Azure; local providers: LXD, MaaS, and manual providers based on discrete servers; and ancillary services: Digital Ocean, Linode and Rackspace

- providing highly available, load balanced, and monitored applications and application stacks

- deployment strategies such as Juju, but also Chef, Puppet, and Ansible

Systems and Languages

- *Fluent in:* Python, Javascript, Make, Flask, Django, D3

- *Comfortable in:* Go, Ruby, Coffeescript, Bash, Martini, nvd3, YUI

- *New to:* Elm, React, Rails

- Fluent in Linux operation on both desktop and server, as well as macOS and Windows

Work experience

Canonical, Ltd. Software engineer — 2012-*present*

- Shepherded the Juju GUI from inception to production, working to implement changes from the core API as it moved from Python to Go
- Worked to implement annotation information within Juju core to allow persistent GUI state to be stored within Juju models
- Worked to implement tooling around bundles of charms on various levels:
  - Python-based Juju Quickstart, which created a model and deployed charms to it in Juju 1
  - Python-based juju-bundlelib library, which broke a bundle down into the composite steps needed to deploy it (bundle changes), information that can be consumed by the Juju GUI
  - Go-based jujusvg library, which generated an SVG image of a bundle as it would appear on the Juju GUI's canvas
  - Go-based bundleservice and corresponding charm, which provided an API endpoint for generating both the bundle changes and bundle SVG

bConnected Software/Optum Health/United Health Group Software engineer — 2011-2012

- Worked to implement a supplemental insurance sales portal from initial meetings to release
- Developed web applications in Grails and JavaScript, backed by an API provided by an in-house tool
- Designed and implemented an XML-based rules engine for calculating both plan rates and eligibility within the web applications
- Extended the Java-based in-house tool to work with the rules engine
- Built a basic editor for the rules engine and a related forms engine

Colorado State University Libraries Library Technical Services/Research & Development — 2007-2011

- Provided hardware and software technical support to library staff, comprising 400-500 desktop machines
- Worked with specialized equipment such as flat book scanners, archival scanners, and plate-glass negative scanners
- Managed the fleet of ~300 desktops and ~200 laptops available for public use
- Developed in-house software for managing the Atmospheric Sciences Reading Room, a branch library, allowing basic lending of materials
- Investigated custom software for mapping resources in the library as well as locations around the campus, providing shortest-path routing from current location

Education

University   Colorado State University (2004-2011) studying music composition and computer science.

Additional employment experience, publications, and volunteer projects Madison has worked with are available on her C.V.