

Lilith Carpenter

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Summary Senior Software Developer with 8 years of professional experience specializing in databases and back-end/system software. Experience includes work with practically every layer of the typical development stack from the voltage sent on the wire, server/router hardware, the Linux kernel, as well as frontend and backend web development.

Preferred Languages Ruby, Lisp/Scheme, SQL, Python, C

Areas of Expertise Web Dev, Linux, Network Programming, Systems Programming, Virtualization, Cybersecurity

Employment History **Intoximeters, St. Louis, MO** **October 2014 – December 2017**
Web Development (Software Engineer)

As the most senior software engineer within the team, I focused on software development for the Intoxi-track program management tool. This position was full time remote for the last 6 months.

- *Typescript, JavaScript, AngularJS, frontend web development:* Maintain, develop, and test an existing AngularJS 1.6 application while spearheading efforts to use updated technologies when possible. Led update to latest version of AngularJS.
- *Ruby, Rails, backend web development:* Maintain, develop, and test a JSON API-based Rails application while continually pushing updates (including security) and best practices. Lead update from Rails 3 to Rails 4.
- *PostgreSQL, databases:* Continually maintain, write, and analyze SQL queries, schema, and views for the IntoxiTrack application. Aid in deploying, configuring, and performance analysis.
- *AWS, Chef, various supporting tech, DevOps:* Aid DevOps team member(s) in maintaining, troubleshooting, and auditing the cloud infrastructure running and supporting the Intoxitrack application.
- *Mentoring, leadership:* Mentor team members in software development best practices, assist team members in learning and utilizing new technologies, and evaluate new technologies for adoption into the application.

Camber Corporation, O'Fallon, IL **December 2012 – October 2014**
Cybersecurity (Software Developer)

Worked as a software developer on the CENTS team designing and developing network training simulators for use by DOD and commercial customers.

- *Ruby, networking:* Developed a middleware framework to manage external applications interfacing with Metasploit for attack and traffic generation and execution, including a system to create and deploy custom attack content libraries.
- *Python, Django, Linux, Bash:* Maintain and develop web application for remote management of Linux GNU/Linux server and custom applications.
- *C, Ruby, Bash, Linux:* Developed disk partitioning and formatting tools, hardware detection tools, and network configuration tools as part of a custom installation process for a customized version of Linux GNU/Linux
- *Ruby, Linux:* Designed and developed a custom build system using libvirt and KVM to perform concurrent software and package builds.
- *C, Linux, networking:* Designed and developed a minimalist command and control module to monitor and manage remote VM applications.
- *Mentoring, leadership:* Teach co-workers technologies they are unfamiliar with, mentor them on development practices, and evaluate new technologies for adoption.

Total Highspeed, Nixa, MO
Web Development and Tech Support (Tech I/Software Developer)

March 2012 - December 2012

Provided quality technical support while maintaining the company website in PHP and implementing business applications in Python/Django.

Fury Codes LLC, Springfield, MO
Web Development (Software Developer)

March 2011 - August 2011

Worked on a large existing Python/Django inventory system and managed multiple e-commerce solutions including Magento.

Ozarks Technical Community College, Springfield, MO
Web Development and Operations (Technical Services Technician)

January 2010 - March 2011

Primarily researched new technologies for potential use in their infrastructure. In addition, wrote scripts and small web applications in Perl, PHP, and bash while assisting with deployments.

Meetup Talks

- **Beginning Clojure** <https://gitlab.com/azrazalea/beginning-clojure-presentation>
Designed to get someone started with a clojure development environment and on the path to learning clojure.
- **Prisoner's Life** <https://gitlab.com/azrazalea/prisoners-life-presentation>
Presents a prisoner's dilemma and Conway's Game of Life program written in Clojure.
- **Clojure Core** <https://gitlab.com/azrazalea/clojure-core-presentation>
Description of the core concepts and functions of Clojure.
- **Lisp Game Development** <https://gitlab.com/azrazalea/lisp-game-dev-presentation>
Presents the concepts and libraries involved when making games in Common Lisp. Intended for non-lispers.
- **State of the Lisp Family** <https://gitlab.com/azrazalea/state-of-lisp-family>
Designed to be a living presentation on the state of the general Lisp ecosystem. Hasn't been updated for awhile.

Other

- AAS in Network Technology
- Founded the St. Louis Lisp Users Group
- Led the St. Louis Clojure Users Group