

Lilith Carpenter

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Summary Senior software developer with 8 years of professional experience. I specialize in databases and backend/system software. My 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, and frontend and backend web development.

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

Areas of Expertise Web Development, Linux, Network Programming, Systems Programming, Virtualization, Cybersecurity.

Employment History **Intoximeters, St. Louis, MO** **October 2014 – January 2018**
Web Development
Software Engineer

At Intoximeters I served as the most senior software engineer, focused on software development for the Intoxitrack program management tool.

- *Typescript, Javascript, Angular.js, Frontend Web Development*: Maintain, develop, and test an existing Angular.js 1.6 application while spearheading efforts to use updated technologies when possible. Lead update to latest(at the time) Angular.js 1.6 from 1.1.
- *Ruby, 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 aid in the evaluation of technologies for adoption into the application.

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

At Camber I 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, Debian, Bash*: Maintain and develop web application for remote management of Debian GNU/Linux server and custom applications.
- *C, Ruby, Bash, Debian*: 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 Debian GNU/Linux
- *Ruby, Debian*: Designed and developed a custom build system using libvirt and KVM to perform concurrent software and package builds.
- *C, Debian, Networking*: Designed and developed a minimalist command and control module to monitor and manage remote VM applications.
- *Mentoring, Leadership*: Mentor team members in software development best practices, assist team members in learning and utilizing new technologies, and aid in the evaluation of technologies for adoption into the system.

Total Highspeed, Nixa, MO

March 2012 - December 2012

Web Development and Tech Support

Tech I/Software Developer

At Total Highspeed I answered phones and provided technical support while maintaining the company website in PHP and implementing business applications in Python/Django.

Fury Codes LLC, Springfield, MO

March 2011 - August 2011

Web Development

Code Ninja

At Fury Codes LLC I worked on a large existing Python/Django inventory system and managed multiple e-commerce solutions including Magento.

Ozarks Technical Community College, Springfield, MO

January 2010 - March 2011

Web Development and Operations

Technical Services Technician

At OTC I primarily researched new technologies for potential use in their infrastructure. In addition, I 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>
- **Prisoner's Life** <https://gitlab.com/azrazalea/prisoners-life-presentation>
- **Clojure Core** <https://gitlab.com/azrazalea/clojure-core-presentation>
- **Lisp Game Development** <https://gitlab.com/azrazalea/lisp-game-dev-presentation>
- **State of the Lisp Family** <https://gitlab.com/azrazalea/state-of-lisp-family>
- **Lisp Flavored Erlang** <https://gitlab.com/azrazalea/lfe-presentation>

Other

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