# Eric Rasche

*Programmer II*

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The primary goal of my work is to make developer and end-user lives easier, more efficient, and more automated. I consider my job accomplished If I can help coworkers simplify their workflows into manageable and reliably automated steps, allowing them to go home to their families.

## Professional Experience

May 2012 - August 2016 **Programmer II**, *Center for Phage Technology*, Texas A&M University.
Developed hand-managed infrastructure into automatically deployed docker containers. Developed dozens of tools and wrappers for bioinformatic analyses. Provided tier 1 desktop support to organisational staff and faculty. Administered a heterogeneous (Linux/OSX) classroom for department use. Designed, implemented, deployed, and managed interim departmental SSO solution (Kerberos, LDAP, NFS+Kerberos).

June 2015 - Present **Galaxy Committer**, *Galaxy Project*, Penn State University/Johns Hopkins University.
Due to contributions to the Galaxy bioinformatic platform, was added as part of the first ever group of non-employee committers added to the project.

August 2016 - **Senior Software Applications Developer**, *Center for Phage Technology*, Texas A&M University.
Moving into new role as part of a grant funded project. Project consists of designing, overseeing, and developing the implementation of new web services supporting lab personnel and bringing together multiple disparate web services. Plans include deployment of reusable infrastructure, allowing for smaller sites to easily deploy similar instances, tuned to their needs.

## Notable Projects

Galaxy Contributor to the Galaxy project, a web service which provides convenient and friendly access to command line tools, with a focus on bioinformatics and workflow development. Contributions were not focused on any particular area of the project.

Galaxy IEs Co-developed a completely novel visualization framework in the bioinformatic space which allowed for data visualization and analysis inside Docker containers. This enabled users to do interactive bioinformatic analyses in Jupyter and RStudio instances, on an otherwise relatively non-interactive platform.

Galactic Radio Telescope In-development service to anonymously aggregate logs from many production Galaxy instances and provide a framework for statisticians to analyse the data. These analysis results will be used to better inform distribution of jobs on highly heterogeneous cluster resources.

Gologme Re-implementation of a personal activity tracker into golang with addition of new features such as sudo-less mode, multi-user support and a change to client-server setup.

## Technical Skills

Development Python (especially Django, DRF), Golang, Perl

Deployment Puppet, Ansible

SysAd GNU/Linux (Ubuntu, Debian), Centos, Postgres, OpenLDAP

Monitoring Nagios, Sentry, ELK, collectd, StatsD, Graphite

## Education

2009–2013 **B.S. in Biochemistry**, *Texas A&M University*, College Station, Texas.

## Other Experience

HAM Ham radio novice (Technician Class), `KF5GQP`

Language English (Fluent), Latin (Intermediate), Norwegian (Elementary), Chinese (Elementary)