
SKILLS

At Scale:

- Puppet, CFEngine 3
- Nagios, Zabbix
- MPI, Ganglia, Condor
- AWS EC2, S3, Glacier

API Integration:

- OAuth, OpenID, Shibboleth
- Discord, Facebook Live

Data Scraping:

- WWW::Mechanize, BeautifulSoup
- XPath, CSS Selectors
- Sentiment analysis
- Google Analytics, Facebook Pixel, Web log analysis

Web Stacks:

- Python/Django, Perl Plack/PSGI, Ruby/Rails
- React/Redux, HTML a11y, WCAG
- Postgres, MariaDB, Oracle
- Apache Cassandra, HDFS
- Nginx, Apache

EXPERIENCE

Selected Jobs:**Data Engineer**

2019-2020

FlowCommand

- Increase cross-team communication and speed installations by bridging internal systems to Slack
- Implement Bayesian networks for proactive health indicators

Data Engineer

2019

Athlane

- Data analytics and intake pipeline (ETL) work in Python, focusing on improving Twitter, Reddit, and Discord intakes and analysis.
- Leading data scraping and bot initiatives.

Linux Administrator

2018-2019

National Center for Biotechnology Information, Medical Science & Computing

- Provision, maintain and decommission 2000+ CentOS servers using Puppet
- Create distributed inventory management and alert tooling

Web & API Developer

2016-2018

Division of Information Technology, University of Maryland, Baltimore County

- Created enterprise service bus and automation platform
- Built API integrations for multiple campus partners across diverse API types
- Improved unified communications strategy by email analysis
- Developed various API adapter modules for Rails projects

Linux Systems Administrator

2015

Division of Information Technology, University of Maryland, Baltimore County

- Migrated configuration management from CFEngine to Puppet
- Migrated server monitoring from Nagios to Zabbix
- Set up Oracle and MariaDB databases for all classes

Webmaster

2008-2013

University of Maryland, Biotechnology Institute

- Expanded HaloWeb <halo.umbc.edu> from one genome to twenty plus genomes
- Created data visualization tools for cross-dataset correlative query building (MySQL)
- Managed cross-platform application development

SELECTED PROJECT

Discord*fletcher.fun**Fletcher, Discord bot for cross-community organizing and administration***Student Government Association, UMBC***apps.sga.umbc.edu/orgs**Student Organization Funding and Organization Tools***Hackathons:**

NCBI 2017: Graph Genomics Applications

HackUMBC 2016: Heterogenous Cloud FUSE Block Devices, 2017: OPDS Cataloguer

bitcamp 2014: Serendipity: An elegant Pebble app for wanderers

EDUCATION

Bachelor of Science in Information Systems

2014-2018

University of Maryland, Baltimore County