# Mike Burr

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## At a Glance...

Goal—I wish to work with a small, motivated team of capable, humble engineers. Workplace culture is a primary motivator for me. It's important to me that productivity and goal-seeking be foremost. I thrive under circumstances where I have ownership. Given a clearly-defined objective, I will produce great results.

Skills—Language: Python, Web Front-end (JS, HTML, CSS), Ruby, Shell, PERL Web Backend: Flask, Django, PostgreSQL, NoSQL, Server Stack (Squid, Nginix, WSGI) Meta: Linux/Unix Systems Matters, Development Process, Automation

## Employment History

VMware: Palo Alto, California                                                                April 2017-June 2018
**Staff Engineer**
- Maintenance, feature implementation, troubleshooting of pure-python testing framework for VMware's hybrid cloud platform VCF; involved interaction with a wide range of datacenter, cloud technologies: AWS, VM deployment, networking, multiple storage network implementations
- Conception, design, implementation of various QA tools: log analysis, mass-host-imaging (with web-UI), gitlab web hooks, git hooks; included from-scratch development of widely-used web portals (flask, django) for purpose-built tools
- Upkeep and tuning of existing devops infrastructure: Jenkins, Gitlab, multiple complex test environments

Cisco Systems: San Jose, California                                                    November 2012-March 2017
**Software Developer; QA**
- Co-architect role developing from-scratch Python framework for Cisco Unified Computing System ecosystem, including a wide range of Cisco and third-party hardware
- Lead, primary contributor for team-specific Gitlab deployment effort, including Gitlab customization, hooks and other development work flow enforcement
- Wrote Python wrapper library for traffic generator hardware (Ixia) legacy Tcl API

Triad Semiconductor: Winston-Salem, North                        Carolina January 2009-September 2012
**IT Manager**
- Hired as company's first IT engineer; lead effort of ground-up redesign and overhaul of entire network and infrastructure, realized substantial gain in resource use efficiency and reliability
- Realized large performance gains for ASIC design resources (circuit simulation, server-sided design environment) by consolidating and pooling existing resources and creating custom Python utility web portals, dashboard for interaction, administration (Flask)
- Deployed internet-facing corporate firewall, VPN endpoint using Linux IPtables, OpenVPN and various intrusion prevention, detection measures (100% open source software)

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Greatwall Systems: Winston-Salem, North Carolina                    April 2007-October 2008
**Senior Systems Engineer**
- Sole responsible party for design, acquisition and administration of organization's entire data, testing and voice networks and all IT infrastructure from company's inception, employing 100% open source software.
- Built multiple custom utilities for both corporate and engineering groups: heavily customized Trac deployment, deeply integrated with source change management, development and build infrastructure and corporate communications systems
- Multiple complex R & D efforts to explore new hardware possibilities for company's flagship firewall/IDS/IPS product
- Fully free, open source enterprise systems: OpenLDAP directory, SSO with from-scratch Python add-change-remove web UI, Postfix/Cyrus IMAP mail system, including automated bulk email categorization

PointDx: Winston-Salem, North Carolina                    April 2001-April 2007
**Systems Engineer**
- Design, procurement and administration of all corporate IT assets and networks from company's inception; Fully open source email, networking, firewalling, directory (LDAP), Windows desktop admin automation
- Curation, anonymization of large radiology imaging data library
- Numerous innovative money-saving initiates for small start-up: fully free, open source software; build-out of server room, physical network wiring; use of singular commodity hardware to save the company money (e.g. re-purposed SPARCstations running Debian Linux as stop-gap server hardware; User Mode Linux virtualization to consolidate hardware)

# Education

Bachelor of Science in Mathematics: Gainesville, Florida
University of Florida