

David Slusser

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I'm a seasoned engineer specializing in **Python** and **Django** who has successfully led multiple initiatives from conception to production. Projects I've led have included technical areas such as **data** modeling, **API development**, web interfaces, and **service deployments** in bare metal, virtual, cloud, and **container** based environments. My professional experience spans multiple disciplines including **software development**, **site reliability**, devops, and infrastructure, and networking. If any of this aligns with your needs, let's connect.

Professional Experience

Senior Software Engineer/Site Reliability Engineer: Contractor, June 2023 – Present

- Created and updated software integral for automated deployment of Kubernetes clusters
- Authored original Terraform and Terragrunt code for managing infrastructure as code
- Deployed monitoring, alerting, and logging platforms and created dashboards for resources and services
- Integrated OIDC into multiple services and k8s infrastructure to standardize authentication with Okta
- Created ArgoCD applicationSets for automated deployment of custom and open source k8s resources
- Designed end-to-end testing framework for validating bulk wholesale orders consisting of up to thousands of line items through RESTful APIs to validation system performance at scale
- Configured Kubernetes environments for deploying internal services
- Deployed and maintained Kubernetes based services via ArgoCD

Technologies used: *Kubernetes, ArgoCD, GoLang, Python, OIDC, Okta, Terraform/Terragrunt/OpenTofu, Helm, Prometheus/Grafana/Loki Postgres, RESTful APIs, Flask, Oauth, Docker, AWS, Github/Gitlab*

Senior Software Engineer: MyOme, April 2021 – April 2023

- Designed and implemented a custom full stack laboratory information management system to track genomic samples, data files used in analysis, client orders and status, pipeline executions, and report deliveries
- Devised and deployed an order management service to facilitate order creation, status polling, and results and data retrieved for orders made to multiple vendors
- Authored various reusable python packages, including a base Django package containing core settings, abstract models, views, and templates
- Created CI/CD workflows for packaging, deployment, and automated code quality measures including testing, linting, formatting, static type enforcement via Github actions
- Maintained public cloud resources in AWS, including S3, EC2, RDS, EKS, IAM, ECR, and others across multiple accounts and environments designated for development, test, production via terraform
- Deployed and maintained multiple services, included full stack applications, microservices, and shared services into Kubernetes clusters for development, testing, and production environments with configurations managed via Kustomize

Technologies used: *Python, Django, Linux, Nginx, Postgres, Celery, Redis, RESTful APIs, DRF, Bootstrap, Oauth, Docker, Kubernetes, AWS, Github, Github Actions*

Senior Software Engineer/Site Reliability Engineer: Box, February 2016 – April 2021

- Architected platform to identify Access and Identity Management (IAM) related issues from multiple cloud providers to facilitate security remediation and provide evidence used in certification audits, ensuring Box's cloud infrastructure remains secure and compliant
- Developed and delivered system to organize, facilitate, and automate evidence collection for multiple certifications including SOC, PCI, FedRAMP, HIPPA, ISO9001 and others
- Designed and deployed custom cloud management platform to manage components, inventory, capacity, self-service operations, and health checks across multiple clouds provided by Openstack, AWS, Azure, and GCP

- Delivered custom tooling to facilitate patching activity and status based on Common Vulnerabilities and Exposures (CVE) to ensure Box's host infrastructure remains secure
- Created highly available Redis systems spanning multiple clouds across multiple data centers and included a custom CLI allowing manual and automated changes to DNS entries, process control, and service interaction for automated host patching
- Successfully migrated multiple services including those build upon bare metal servers, virtual machines, and Kubernetes pods as part of a datacenter migrations with zero operational impact
- Served as mentor to junior engineers and provided training and tech talks to colleagues of all levels

Technologies used: *Python, Django, Linux, Nginx, MySql, Celery, Redis, RabbitMQ, RESTful APIs, DRF, Bootstrap, Docker, Jira, LDAP, Kubernetes, Openstack, AWS, GCP*

Senior Software Engineer/Automation Engineer: Equinix, August 2014 – September 2015

- Implemented web-based platform containing tools to generate and track customer configurations on production systems, perform Field Implementation Tests, manage equipment, and house other network tools and utilities
- Created original automation framework to support operations on lab equipment, supporting multiple platform vendors including Juniper, Cisco, Arista, and Ciena and test equipment such as Ixia, and others
- Maintained virtual infrastructure and owned turned up and configuration of virtual machines to support lab and production functions
- Managed and served as mentor to interns through their technical projects

Technologies used: *Linux, Python, Django, Apache, MySql, Bootstrap, Junos, EOS, VMware*

Senior Tools Engineer: Broadcom, April 2012 – August 2014

- Maintained infrastructure, configuration, and scripts to execute and tally results of hourly and nightly builds across thirty independent branches in a continuous integration environment
- Developed a custom system to validate pre-merged source code prior to SCM integration
- Created automation tools to facilitate code compliance, identify build issues, and standardize release packages
- Administered resources including SCM tools, Coverity, MySQL databases, network filers, and other systems utilized by the software organization
- Served as project manager for shared network systems and infrastructure used by multiple international groups, responsible for administration, forecasting, etc.

Technologies used: *Linux, Python, Bash, CVS, Git, MySql, LSF, CI/CD*

Senior Automation Engineer: Taseon, November 2008 – September 2011

- Enhanced automated process for qualifying software builds by adding system setup, execution, result tallying, and result distribution into a single dynamic launcher
- Optimized automation efficiency by creating automation framework for parallel element usage
- Developed multiple levels of build qualification suites, improving build quality
- Designed and implemented standardization of automated test scripts, suites, and documentation
- Developed Python based tools to monitor Linux processes and automation status to track system usage, stability, and availability
- Created method of queuing automation tests to maximize equipment usage and sharing
- Developed custom Python APIs to interface with network elements, servers, and test equipment
- Turned-up and maintained Linux systems with custom configurations to enhance automation environment and capacity
- Created web infrastructure based on LAMP technologies to control automation execution and results analysis, improving visibility to potential test failures and conflicted results
- Created dynamic router simulators, utilizing XML, netconf, and CLI portals, used to enhance management interface testing, demo presentations, and training sessions

Technologies used: *Linux, Python, Bash, Perforce, Networking, Juniper, Cisco*