

# David Slusser

Accomplished Software Engineer

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As a highly accomplished **Software Developer**, I bring extensive expertise in designing and delivering robust, full-stack applications with a strong focus on performance and user experience. With deep proficiency in **Python** and **Django**, I excel at creating maintainable, high-quality code and architecting RESTful **APIs**. My solid background in database design and optimization complements my ability to drive efficiency across projects. A collaborative leader in agile environments, I am passionate about leveraging my technical acumen to build innovative solutions and drive product success.

## Work Experience

### Centene (08/2024 - Present)

#### Senior Software Engineer (contract)

- Implemented enhanced MongoDB data models to optimize data access performance, resulting in reduced code complexity, improved query precision, and decreased database latency
- Developed and deployed tooling using Python, Django, and HTMX to enhance customer experience by optimizing data processing efficiency and enabling custom user interfaces
- Revamped internal documentation, including design decisions, technical specifications, and updated runbooks, to establish new team best practices for knowledge management and documentation standards
- Implemented CI/CD pipelines using GitLab CI to automate code quality checks, enforce coding standards, and improve software development workflows
- Designed and built high-performance RESTful and GraphQL APIs to support payment transactions at scale

**Tech Stack:** Python, Django, Postgres, MongoDB, Redis, AWS, Docker, Kubernetes, Helm, GitLab CI/CD

### Splunk (04/2024 - 06/2024)

#### Senior Software Engineer (contract)

- Automated the deployment of Splunk Kubernetes clusters using Python, Go, and GitLab CI/CD pipelines, resulting in a 20% reduction in deployment time

**Tech Stack:** Golang, Python, Kubernetes, GitLab CI/CD, AWS

### Seal Storage (11/2023 - 04/2024)

#### Senior Site Reliability Engineer (contract)

- Automated the deployment of custom and open-source Kubernetes resources using Argo CD ApplicationSets
- Implemented standardized OIDC based authentication and authorization using Okta, streamlining access management across all services and Kubernetes infrastructure
- Developed Terraform and Terragrunt code to automate infrastructure provisioning, improving consistency and reducing deployment times
- Administered the setup and management of physical, virtual, and containerized Linux servers, network devices, and data center infrastructure

**Tech Stack:** Kubernetes, GitLab, Helm, Terraform, Okta, Ansible, ArgoCD, Prometheus, Grafana, Loki

### Nike (06/2023 - 11/2023)

#### Senior Software Engineer (contract)

- Designed and implemented an end-to-end testing framework to validate API-based bulk wholesale orders with large JSON payloads, enhancing system performance and scalability
- Automated the deployment of Kubernetes services across multiple environments using Argo CD, streamlining the deployment process
- Developed Infrastructure as Code (IaC) using Terraform to automate the management of AWS resources across production, staging, development, and performance testing environments

**Tech Stack:** Python, Flask, Postgres, Github, Docker, Kubernetes, Helm, Terraform, ArgoCD

### MyOme (04/2021 - 04/2023)

#### Senior Software Engineer

- Designed and implemented a full-stack laboratory information management system (LIMS) using Python/Django to track genomic samples, data files, client orders, order status, pipeline executions, and report deliveries
- Designed, built, and deployed an order management service to facilitate order creation, status updates, and data retrieval for multi-vendor orders
- Developed reusable CI/CD pipelines to automate the build and deployment of Docker images for all containerized tools, applications, and services
- Managed AWS resources, including S3, EC2, RDS, EKS, IAM, and ECR, across multiple accounts and development, test, and production environments using Terraform
- Researched, evaluated, and integrated new technologies, frameworks, and platforms to define and establish technology stack standards
- Developed web front-end interfaces and reusable components using HTML, CSS, and JavaScript

**Tech Stack:** Python, Django, Flask, Postgres, Redis, Celery, Docker, Kubernetes, Terraform, AWS

**Box** (02/2016 - 04/2021)

Senior Software Engineer/Site Reliability Engineer

- Architected a platform to identify Access and Identity Management (IAM) issues across multi-cloud environments (AWS, Azure, GCP), facilitating security remediation and providing evidence for certification audits (SOC, PCI, FedRAMP, HIPAA, ISO 9001), ensuring cloud infrastructure security and compliance
- Developed and delivered an automated system to organize and facilitate evidence collection for certifications, including SOC, PCI, FedRAMP, HIPAA, and ISO 9001
- Designed and deployed a custom cloud management platform to manage components, inventory, capacity, self-service operations, and health checks across OpenStack, AWS, Azure, and Google Cloud
- Developed custom tooling to facilitate host infrastructure patching and Common Vulnerabilities and Exposures (CVE) status reporting, ensuring ongoing security
- Designed and implemented highly available multi-cloud Redis systems across multiple data centers, including a custom CLI for automated DNS management, process control, and service interaction for automated host patching
- Successfully migrated services from bare metal, virtual machines, and Kubernetes to new data centers, ensuring zero operational downtime
- Served as a Software Development Lead, mentoring junior engineers and providing training, code reviews, and technical presentations to colleagues
- Developed custom infrastructure automation tools for deployments, upgrades, service lifecycles, and performance tuning of physical servers and network devices, used by Site Reliability Engineering (SRE) teams
- Developed custom full-stack network engineering tools, including Data Center Infrastructure Management (DCIM), Configuration Management Databases (CMDB), IP Address Management (IPAM), and network monitoring dashboards
- Managed services and participated in a 24/7 on-call rotation, providing support, troubleshooting, root cause analysis, and system restoration

**Tech Stack:** Python, Django, Linux, Nginx, MySQL, Celery, Redis, RabbitMQ, Docker, Kubernetes, Openstack, AWS

**Equinix** (08/2014 - 09/2015)

Senior Software Engineer/Automation Engineer

- Developed a web-based platform with tools for generating and tracking customer configurations on production systems, performing Field Implementation Tests, managing equipment, and providing network tools and utilities
- Designed and built an automation framework to support operations on lab equipment from vendors like Juniper, Cisco, Arista, and Ciena, and test equipment like Ixia
- Managed virtual infrastructure, including the setup and configuration of virtual machines, to support lab and production environments
- Managed and mentored interns on their technical projects

**Tech Stack:** Linux, Python, Django, Apache, MySQL, Bootstrap, Junos, EOS

**Broadcom** (04/2012 - 08/2014)

Senior Tools Engineer

- Managed infrastructure, configurations, and scripts for hourly and nightly builds across 30+ branches within a continuous integration (CI) environment
- Developed a pre-commit source code validation system to ensure code quality prior to Source Code Management (SCM) integration
- Developed automation tools to enforce code compliance, identify build failures, 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 supporting multiple international teams, responsible for administration and capacity planning
- Owned large-scale server resources, including usage analysis, budget planning, and capacity management, in collaboration with cross-functional teams and management
- Owned large-scale server resources, including usage analysis, budget planning, and business continuity planning

**Tech Stack:** Linux, Python, Bash, CVS, Git, MySQL, LSF, CI/CD

**Taseon** (11/2008 - 09/2011)

Senior Automation Engineer

- Developed dynamic router simulators using XML, NETCONF, and CLI interfaces to enhance management interface testing, demonstrations, and training
- Enhanced the automated software build qualification process by integrating system setup, execution, result aggregation, and distribution into a dynamic launcher
- Optimized automation efficiency by developing a parallel execution framework
- Developed multi-level build qualification suites to improve overall build quality
- Designed and implemented standardized automated test scripts, test suites, and related documentation
- Developed Python based tools to monitor Linux processes and automation status to track system usage, stability, and availability
- Implemented an automation test queuing system to maximize equipment utilization and sharing
- Developed custom Python APIs to interface with network devices, servers, and test equipment
- Configured and maintained Linux systems with custom configurations to enhance the automation environment and capacity
- Developed a web infrastructure using LAMP technologies to control automation execution and results analysis, improving visibility of potential test failures and conflicting results

**Tech Stack:** Linux, Python, Bash, Perforce, CLI, optical networking, test equipment