

Olga Ustiuzhanina

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Summary: An adaptable site reliability engineer possessing a demonstrated capacity for rapid learning and applying inventive problem-solving to diverse tasks. Showcases proficiency in system administration, cloud technologies, and containerization, complemented by a solid foundation in programming languages. Eager to pursue a challenging opportunity that allows for skill enhancement and contributes to the growth of a forward-thinking organization.

Programming Languages: Shell Scripting, Python, C, C++, Perl

Technologies & Tools: AWS, Google Cloud Platform, Kubernetes, Docker, GitLab, Jenkins, Ansible

Monitoring & Observability: Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana), Datadog

Technical Skillsets: Oncall support, incident management, CI/CD pipelines, data science/machine learning, VPN technologies, performance optimization

Soft skills: teamwork, leadership, time management, adaptability, effective communication

Professional Experience

Indeed Ireland

Senior SRE

Dublin, Ireland

Oct 2021 - May 2022

- Facilitated the shift of various services from an in-house cloud to AWS, resulting in better scalability and a 30% reduction in infrastructure costs.
- Updated various legacy code bases (Python, Java) to support new infrastructure, enhancing maintainability and ensuring seamless integration with modern systems.
- Conducted thorough root cause analyses and implemented effective solutions to prevent recurring issues, resulting in a 25% reduction in incident rate.
- Participated in on-call rotation, providing prompt support for critical issues, and handling outages to minimize downtime and maintain service-level objectives.
- Developed and maintained comprehensive documentation and runbooks, streamlining knowledge transfer, and reducing onboarding time for new team members.

Google Ireland

SRE / Systems Engineer

Dublin, Ireland

May 2019 - August 2021

- Enhanced a load testing framework by addressing numerous bugs, automating manual processes, and expanding its applicability across multiple services.
- Collaborated with Machine Learning developers to integrate a large-scale backend data distribution system.
- Managed outages through detection, triage, and mitigation as part of an on-call rotation.
- Successfully resized a mission-critical distributed service's global capacity, reducing total resource usage by half.
- Provided technical guidance and mentorship to junior engineers, fostering a culture of continuous learning and professional growth within the team.
- Actively participated in incident post-mortems and shared valuable insights to identify root causes, develop preventive measures, and improve overall system resilience.
- Identified harmful and outdated language concerning a marginalized community within the knowledge graph database, and developed a program to detect and compile a list of potentially problematic entries.
- Authored a comprehensive document outlining the issue and proposing various approaches to address it, emphasizing the importance of inclusivity and accurate representation.
- Facilitated a detailed discussion with members of the affected community, gathering their insights and feedback to ensure a respectful and well-informed resolution.
- Collaborated closely with the knowledge graph team to review and update all identified entries, successfully correcting every detected issue and fostering a more inclusive and accurate database.

- Developed Bash, Python, and Perl scripts to automate and streamline administrative tasks on RHEL and Debian-based hosts.
- Led the transition from manual server management and software deployment to a fully automated system based on Ansible, reducing deployment time by 60%.
- Established various VPN technologies and configured multi-office network routing to facilitate seamless production access.
- Provided comprehensive developer support for CI/CD systems, including GitLab and Jenkins.

Expertise

- Strong proficiency in shell scripting, Unix tools, and regular expressions, contributing to improved system management processes.
- Advanced Python user with expertise in the standard library and popular third-party packages (numpy, scipy, pandas).
- Skilled in C and C++ with the ability to debug code, optimize performance, and implement low-level enhancements.
- Adept at MiniZinc (constraint modeling DSL) and Google Operations Research toolkit for optimization and decision-making.
- Extensive experience in Linux system customization, software packaging, troubleshooting, and performance enhancement.
- Significant knowledge of container technologies (Docker, LXC) and their underlying principles (namespaces, cgroups, chroot).

Projects

- gol.py: An optimized Python implementation of Conway's Game of Life using bitwise operations for maximum performance.
- mandelbrot.sed, a sed script that generates the famous Mandelbrot fractal using regular expressions.
- Infinite CA, a GLSL shader implementing a unique cellular automaton.
- RogueNano, a compact 400-character roguelike game in Perl with random level generation, enemy AI, and endless levels to explore.
- glitch, a C-based tool for glitch-art generation using a compression algorithm with intentionally introduced errors.
- vpnify, a bash script leveraging container technologies to encapsulate user applications and independently route traffic for each application, enabling simultaneous use of VPN and default connections.