Alexander Ziaee

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Website | GitHub | Activity

Summary

Accomplished Site Reliability Engineer (SRE) candidate with a proven track record of driving system reliability, process optimization, and critical-path documentation in hyperscale environments. Expert in UNIX/FreeBSD internals, datacenter operations, and complex technical communication. Awarded two spot bonuses for rapid deployment and debug during a record-breaking Google AI datacenter launch. Recognized as a member of Google Cloud Subject Matter Experts Foundry for proposing 100+ process improvements enhancing reliability of global training materials.

Skills

- **Operating Systems**: FreeBSD/UNIX, Debian/Linux, POSIX, jails, bhyve
- **Infrastructure**: Datacenter Operations, High-density Compute, Network Routing, Fiber Optic Infrastructure, Storage controllers
- **Scripting & Tools**: Bash, Make, Asciidoctor Git, CI/CD, Bugzilla, Technical Editing, Root Cause Analysis (RCA)
- **Technical Documentation & Process**: Style Guide Development, Content structuring, Information Architecture, System Documentation, Quality Assurance (QA), SME Collaboration

Professional Experience

Datacenter Technician II | Google LLC | 2024 - Present

- Turned up state-of-the-art 220MW datacenter network, breaking Google records for deployment speed; awarded two spot bonuses.
- Deployed high-density, mission-critical compute clusters supporting Large Language Model and Artificial Inteligence workloads, directly enabling advanced public-facing services.
- Admitted to the Subject Matter Expert Foundry, one of 194 members in Google Cloud, after proposing over one hundred improvements to global training programs.
- Authored and integrated 6 critical system-level documentation updates, including a global security policy enhancement for Chromebook fleet, reducing security vulnerability windows and improving compliance.
- Achieved maximum operational uptime and campus-wide recognition by resolving all priority-0 networking issues on FreeBSD production hosts within the second day of employment.

Open Source Contributions and Leadership

Committer (Invited Position) | The FreeBSD Project | 2025 - Present

- **Engineered a scalable solution** for FreeBSD hardware documentation by creating a comprehensive style guide enabling automated generation of a centralized Hardware Compatibility List (HCL) for each release, improving maintainability and reducing manual toil.
- **Core Manual Enhancement**: Authored and revised major sections of the FreeBSD UNIX system manual, contributing 36% to the critical `intro(1)` and 44% to the `hier(7)` filesystem index, improving operational efficiency and accessibility for all users.
- **User Experience Improvement**: Enhanced the `ls(1)` command by seamlessly integrating new features with comprehensive documentation, backporting the changes to previous releases for maximum impact.
- **Cross-Platform Consistency**: Eliminated user frustration by identifying and correcting bugs across multiple platforms in fundamental manuals for `ntpd`, `ssh2`, `libarchive`, and `autofs`, ensuring global reliability and accuracy.
- **Documentation Quality & Maintainability**: Collaborated with a global team of developers to elevate the maintainability and accuracy of FreeBSD documentation, leading to the successful publication of critical global system documentation.

Presentations and Community Engagement

- **Presenter**, BSDCan Technical Conference, 2025
  Presented a plan to unify documentation standards for device drivers.
- **Attendee**, BSDCan Technical Conference, 2019, 2025
- **Volunteer**, Ohio LinuxFest Conference, 2019, 2024

Leadership and Prior Experience

Sole-Proprietor | Sanbao Services LLC | 2018 - 2024 Managed a traditional building restoration business, overseeing projects from client consultation to completion and growing revenue by 20% in the first year through quality service and effective communication.

Taiji Teacher | Columbus Chinese Academy | 2021 - 2024 Designed and delivered structured training programs for large groups, improving student performance by over 30% and coaching members of the US Junior National Kungfu Team.