

Finbar Day

SUMMARY

Experienced Infrastructure Engineer with a proven track record in system administration, site reliability engineering, and voice and data solutions. Proficient in optimizing system performance and delivering innovative engineering solutions using Node.js and Bash scripting. Skilled in deploying and maintaining Kubernetes environments, automating workflows, and implementing robust backup solutions. Currently completing AWS SAA and Certified Kubernetes Administrator certifications. Dedicated to continuous learning and professional growth. Adept at collaborating with diverse teams to deliver high-impact solutions. Seeking a dynamic role where technical expertise and a commitment to continuous improvement can drive organizational success.

EXPERIENCE

NocTel Communications, Washington — Infrastructure Engineer

NOVEMBER 2023 - PRESENT

- Deployed backup solution for clients and servers, enhancing data recovery capabilities and ensuring data integrity.
- Inventoried, organized, and monitored scope of assets, developing a comprehensive maintenance and upgrade plan.
- Executed upgrade plan, replacing deprecated hardware and achieving a 56% reduction in critical infrastructure alerts.
- Wrote configuration AWX workflows for new VoIP nodes, reducing new node configuration time from 140 minutes to less than 20 minutes.
- Documented and deployed orchestration solutions using Ansible, automating 80% of routine tasks and reducing manual intervention by 63%.
- Researched and implemented replacements for outdated solutions, improving telecommunication service quality.
- Created technical documentation, standardizing processes to reduce onboarding time for new team members.
- Researched and deployed production-grade Kubernetes, allowing for scalability.
- Reengineered aspects of a monolithic PHP application into microservices written in Node.js, improving application performance and reducing processing times significantly.

Intel, Hillsboro — Lead Lab Engineering Technician

AUGUST 2021 - NOVEMBER 2023

- Pioneered Cloud-based remote debug, leading to a 20% efficiency improvement for allocation of servers for pre production CPU Validation.
- Implemented AWX Tower for post-image configurations, standardizing server configurations reducing misconfiguration tickets by 60%.
- Configured Zabbix for proactive system monitoring, ensuring seamless operations and optimal performance.

Technical Skills:

Bash Scripting
Linux
Infrastructure as Code
Docker
Kubernetes
Monitoring and Logging
Git and Version Control
Node.js
Debugging
Pre and Post Silicon Testing

Soft Skills:

Problem-Solving and Troubleshooting
Technical Documentation and Writing
Project Management and Leadership
Communication and Collaboration
Customer Collaboration
Team Collaboration
Adaptability
Resilience
Innovative Problem-Solving
Fast-Paced Work Environments

AWARDS

Time's Person Of The Year award, 2006 (**Look It Up**)

CERTIFICATIONS

Google IT Support Professional Certificate - Google

November 2022

AWS Solutions Architect Associate Certification - Amazon Web Services

In Progress

Certified Kubernetes Administrator Certification - Kubernetes

In Progress

PROJECTS

Depreciation Resolution — *NocTel Communications*

Resolved OS, hardware, and software revision depreciation, achieving a 56% reduction in critical service-impacting alerts and blockages within the first six months. Overcame challenges such as avoiding service impacts to customers, ensuring data resilience, and addressing dependencies in deprecated PHP 5 code by migrating to modern OS and software, ultimately improving overall system stability.

Infrastructure as Code — *NocTel Communications*

Created an internal repository for software versions and OS, and standardized the platform by developing an HTTPS PXE deployment server from scratch. This server auto-registers hosts and triggers an AWX workbook that queries a configuration management database to assign hardware-specific variables. This initiative reduced build time from 140 minutes to 20 minutes, increased service stability, and significantly reduced the time required for integrating configuration changes.

Monolithic Architecture ReEngineering— *NocTel Communications*

Deployed a high-availability Kubernetes control plane to support a redeveloped microservice architecture, enabling NocTel to scale and acquire larger customers. Developed microservices in Node.js to replace aspects of a monolithic PHP application, containerized in Docker. This transition ensured compliance with SLA and SLO requirements and improved application performance.

Monitoring And Observability — *NocTel Communications*

Implemented logging and monitoring to respond to site reliability issues in a new application. Configured SIP monitoring software with Grafana to track relevant metrics, ensuring comprehensive monitoring and tracing for all calls through the services, thereby enhancing system reliability and performance.

Principals, Guides and Best Practices — *NocTel Communications*

Developed extensive documentation and established a culture of support, engineering, and internal education known as "The NocTel Way." This initiative ensured smooth operations and positioned NocTel as a leader in VoIP and SIP engineering. Worked to foster upward mobility for junior staff and standardizing internal processes.