

Nick Ferguson

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Summary

Nick works autonomously to solve business problems and deliver software products using modern software engineering methods and an extensive knowledge of operating systems, networks and build platforms

Skills

- Nginx, Apache, IIS
 - MSBuild
 - PowerShell, Python
 - Linux, Docker (Swarm), LXD
 - VMware vSphere
 - Ansible
 - ASP.NET Core, C#
 - PostgreSQL, SQL Server
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Experience

OCTOBER 2018 – CURRENT

Build Engineer Freedom Scientific of Vispero

- Developed a cross-platform, user-friendly, and test-driven build framework based on PowerShell 7 which eliminated substantial technical debt by porting aging NAnt-based build tools
 - Reverse engineered and integrated build processes for applications and firmware acquired through acquisitions
 - Increased speed and reliability of releases with custom SCM tools targeting Perforce and Git
 - Reduced engineering downtime by developing an on-premises hosting platform for highly available in-house and third-party services using Docker Swarm, Nginx, and CEPH
 - Extended the functionality and reliability of the CI/CD platform with a fully testable API client
 - Reduced CDN (Akamai) storage costs and negative customer experiences by designing and implementing a content management and dependency mapping system that provided a safe management interface to publicly released artifacts and auto-update controls
 - Contributed to positive customer experiences by streamlining the process of requesting, generating, and tracking legacy corporate product licenses occurring between sales agents, product managers and engineers with web-based forms and inventories, e-mail services, and automated validation using ASP.NET and SQL Server
 - Ensured build reproducibility with versioned infrastructure and configuration using Ansible and Git
 - Automated the deployment of ASP.NET Core applications to AWS and on-premises hosting
 - Standardized development and build environments with the introduction of Windows and Linux Containers
 - Improved incident response times and diagnostic capabilities by implementing monitoring, alerting, and log management based on InfluxDB, Grafana, and Graylog
 - Formalized a software versioning scheme and integrated it into build processes using a SQL database, ASP.NET Core API and PwSh client
 - Recognized with a quarterly award for exceeding SLA and providing mentorship to junior associates
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Education

MAY 2020

A.S. in Computer Information Technology / St. Petersburg College, FL

EXPECTED MAY 2022

B.A.S. in Technology Management and Development / St. Petersburg College, FL