

Brandon Moon

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Skills

Languages Python, C++, JavaScript/Node.js, HTML, CSS
Tools & Other REST API, Linux, Git, Agentic AI, Spec Driven Development

Work Experience

Dell Technologies February 2024 – Present
PowerMax Fabrics & Messaging Developer Round Rock, TX (2025-2026)

- Owned the full development lifecycle of a Python package from the ground up, gathering requirements from engineers, authoring a Jira epic, and breaking work into modular stories delivered across multiple sprints
- Architected the package with a modular, reusable design, enabling other scripts and teams to leverage core functionality including OS installation on newly released Drive Media Enclosure hardware, IP configuration, and device discovery within a PowerMax array
- Mentored interns throughout the project, providing technical guidance and assigning stories to give them hands-on ownership of deliverables

PowerStore OS Foundations Developer Round Rock, TX (2024-2025)

- Automated RPM vulnerability remediation for Docker containers by engineering a tool that parses CVE data from CSV files, reducing manual patching effort and improving security compliance for PowerStore systems
- Reduced Docker image bloat by developing a script to identify and remove unnecessary packages, optimizing image size and streamlining the deployment pipeline
- Hardened RHEL OS development environments by authoring an automation script to detect and resolve security misconfigurations, ensuring compliance with system integrity standards

Projects

AWS Static Website Hosting Terraform, AWS (S3, CloudFront, Route 53, ACM, IAM), GitHub Actions
<https://github.com/BrandonMoon01/aws-static-web-hosting>

- Architected a fully reproducible AWS hosting stack in Terraform using S3, CloudFront, ACM, Route 53, and IAM services organized into reusable modules to provision the entire infrastructure from a single apply
- Built a GitHub Actions CI/CD pipeline that validates, plans, and applies Terraform, syncs site content to S3, and invalidates the CloudFront cache on every push to main, automating deployment end-to-end
- Eliminated long-lived AWS credentials by implementing GitHub OIDC federation, scoping the CI deploy role's trust policy and IAM permissions to the specific repository, branch, and resources it manages
- Hardened the hosting architecture by keeping the S3 origin fully private and serving all traffic through CloudFront with Origin Access Control and DNS-validated TLS, ensuring encrypted delivery with no public bucket exposure

CVE Parser Python, SQLite, REST API

- Built a Python pipeline (BeautifulSoup web scraper + CSV ingestion path) to identify vulnerable RPM dependencies by parsing official SUSE CVE advisories and cross-referencing them against internal repositories used in Docker container builds, persisting confirmed vulnerabilities to a tracking database to avoid duplicate work
- Integrated the JIRA REST API to auto-generate tickets populated with CVSS scores, affected packages, and remediation details, eliminating manual triage and ticket creation
- Engineered an automated remediation workflow that checks out affected repositories/branches, updates package versions in rpmlist files, commits changes, and submits pull requests with reviewers assigned
- Cut a manual remediation process from a four-engineer effort to one person, reducing vulnerability response time from hours to seconds and enabling CVE resolution at scale across repositories

Education

Texas A&M University — B.S. Computer Engineering December 2023