

Taylor Mayfield

Senior Technical Engineer

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Professional Summary

Versatile Senior Technical Engineer with 8+ years of experience bridging QA Automation, DevOps, and AI/LLM Engineering. Proven track record of optimizing complex workflows through CI/CD pipelines and robust data integration strategies. As a lead developer for DevGPT and Founder of Bark on Track, specialized in mobile application lifecycle, streamlining LLM implementations, and engineering token optimization strategies to drastically reduce operational costs. Expert in aligning technical solutions with business goals, from enforcing HIPAA/SOC II compliance to designing cost-effective AI architectures.

Technical Skills

AI & LLM Engineering	Ollama, Local LLMs, Token Optimization, Cost Analysis (FinOps), RAG, Prompt Engineering
Automation & Testing	Cypress, Playwright, Selenium, Testing Library, k6, JMeter, Puppeteer, Postman
CI/CD & DevOps	GitHub Actions, Azure DevOps, Terraform, Docker, Kubernetes, Jenkins, AWS
Data & Analytics	Microsoft Power BI, Argos, SQL Server, MongoDB, ETL Processes, MS Access
Languages	TypeScript, JavaScript, Java, PHP, T-SQL, Bash, PowerShell
Frameworks	React, React Native, Node.js, Express, .NET, Spring, Laravel, Vue
Cloud & Infra	Azure, AWS, VMware, CentOS, Debian, Windows Server
Compliance	SOC II, HIPAA, PCI, DAST, SAST

Experience

Oct 2025–Present **System Integration Analyst**, *Colby-Sawyer College*, New London, NH

- Engineered automated ETL pipelines to facilitate seamless data synchronization between 5+ core business systems.
- Architected institutional reporting workflows using Power BI and Argos, reducing manual data compilation time by 30%.
- Developed complex SQL queries and MS Access solutions to validate data integrity and automate extracting analytics for senior leadership.
- Analyzed business requirements to troubleshoot system bottlenecks, streamlining technical workflows for improved operational efficiency.
- Maintained comprehensive system documentation and visual data models (Visio/LucidChart) to ensure knowledge continuity.

Dec 2024–Oct 2025 **IT Coordinator**, *Lake Sunapee VNA & Hospice*

- Enforced HIPAA compliance and mitigated organizational risk through rigorous security audits and policy enforcement.
- Managed IT lifecycle and infrastructure for the organization, ensuring data integrity through automated backups and precise asset tracking.
- Optimized technical support operations, resolving cross-departmental service tickets to maintain strict Service Level Agreements (SLAs).
- Managed third-party vendor relationships for procurement and licensing, ensuring cost-effectiveness and contract adherence.
- Authored and implemented comprehensive IT security policies to align operations with privacy standards.

- Dec 2022–Dec 2024 **Automation Engineer III, LoanStreet Inc.**
- Developed Cypress-based automated test suites for end-to-end and API testing of React applications.
 - Integrated test execution into CI/CD pipelines using GitHub Actions for continuous testing and deployment.
 - Implemented parallelized regression testing strategies to accelerate feedback loops and significantly increase test coverage.
 - Created ephemeral test environments using Terraform and container orchestration (Docker/K8s) for scalable automated testing.
 - Collaborated across React/TypeScript frontend and Java/Kotlin backend teams to enhance testability.
- Aug 2019–Dec 2022 **Platform Engineer II, DealerPolicy**
- Accelerated release velocity by building robust test automation pipelines using Azure DevOps and Terraform.
 - Architected secure, containerized test environments with RBAC to ensure isolation and data safety.
 - Achieved SOC II and PCI alignment by executing Veracode DAST/SAST security scans and remediation.
 - Enhanced system stability under load by identifying bottlenecks through rigorous k6 performance testing.
 - Integrated QA strategies directly into the SDLC during Agile planning to shift quality left and improve code delivery.
- Aug 2016–Aug 2019 **Systems Engineer, MyWebGrocer**
- Engineered hybrid infrastructure (Azure/On-prem) using Terraform and Ansible to ensure high availability.
 - Reduced manual operational toil by automating administration tasks via PowerShell, Bash, and Rundeck.
 - Maintained 99.9% system uptime (SLA) by implementing full-stack monitoring (Grafana, Prometheus) and exercising Disaster Recovery (DR) policies.
 - Administered complex database and messaging ecosystems (MS-SQL, Couchbase, RabbitMQ) to support high-throughput applications.
 - Served as backup DBA and incident response lead, handling technical escalations to minimize downtime.

Projects & Entrepreneurship

- 2023–2023 **Lead Developer, DevGPT (AI/LLM Engineering)**
- Architected and led the development of DevGPT, an advanced AI tool designed to streamline developer workflows.
 - Engineered token optimization strategies to maximize context window usage while minimizing API token consumption, reducing API costs by 40%.
 - Streamlined LLM implementations to reduce computational overhead for lower operational bills.
- 2022–Present **Founder & Lead Mobile Developer, Bark on Track LLC (PuppyOnTrack)**
- Designed, developed, and deployed "PuppyOnTrack," an iOS mobile application using Swift and React Native.
 - Managed the full mobile application lifecycle, including App Store submission, beta testing (TestFlight), and release management.
 - Handled all business compliance requirements, including state filings, DUNS registration, and Apple Developer Enterprise program management.
 - Implemented secure user authentication and data storage best practices for mobile user data.

Education

Jan 2012–Jan 2016 **Bachelors in Computer Science, University of Vermont, Burlington, VT**