Teagan Glenn

Senior Software Engineer - Architecture, Automation, Schema, and Design

Morrison, CO, US

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Known for deploying robust, flexible, and scalable solutions through best practices and automated tooling. Proven track record in advancing team knowledge, skill and confidence through collaboration and mentorship. Driven by passion for technology, a thirst for for learning, and delivering quality.

SKILLS

Languages	State Management	CI/CD	Provisioning	Virtualization	Orchestration	Telemetry	Metrics	IoT	APIs
Typescript	Ansible	GitLab CI	Foreman	Docker	Swarm	Telegraf	Grafana	Z-Wave	GraphQL
Python	Salt	GitHub Actions	MaaS	LXC	OpenShift	Prometheus	Kapacitor	Zigbee	OpenAPI
Java	Chef	Jenkins	ProxMox	PodMan	Kubernetes	OpenTelemetry		Thread	REST
Kotlin	Consol	Drone	VMWare	KVM				MQTT	SOAP
C#									
F#									
VB.Net									
BASH									

WORK EXPERIENCE (5)

Jun 2022 - Jun 2024

Advanced Senior GraphQL Engineer at
https://resideo.com

Tactical and intentional schema design, along with a deep understanding of the GraphQL specification and features, guided my team toward an innovative and novel approach to domain-oriented development that improves inter-team collaboration and communication from top to bottom.

- Led the design and implementation of innovative schema configurations, utilizing GraphQL's Scalar system for self-describing, self-validating, and self-documenting types, reducing assumptions and incorrect implementations.
- Acted as a subject matter expert on GraphQL, mentoring, demoing, and training teams on best practices, significantly improving implementation quality.
- Conducted training and workshops, directly improving project delivery times and system optimization by 20%.
- Facilitated the migration of subgraphs and gateways from NexusJS Apollo Server v2 to NestJS using Apollo Server v4 federation 2.3, doubling sprint velocity and enabling faster and higher quality feature delivery.
- Implemented self-validating, self-documenting domain-driven data types using GraphQL scalars, reducing bug reports by 30%.

Jan 2021 - May 2022

Senior Delivery Engineer at
https://wwt.com

A Delivery Engineer requires a deep understanding of software development patterns, life-cycle, CI/CD pipelines, DevOps tooling with a client-centric mindset. Assigned to different teams to provide whatever may be necessary to deliver: working directly with developers to remove obstacles, tools to improve throughput, implementing quality control checks, or deploying the infrastructure to make the project a success.

- Designed, built, and deployed an award-winning solution using Ansible to verify rack equipment, increasing throughput from less than 10 to over 60 devices a day, reducing errors to almost 0.
- Developed a framework for automated validation and remediation of hardware configurations, utilizing mDNS, PXE, iPXE, and DHCP, eliminating supply chain bottlenecks and improving efficiency.
- Initiated weekly self-paced training sessions, enhancing team communication, cohesion, and project collaboration.
- Developed tools using Ansible, Python, Redfish/iDrac, and network protocols, simplifying task logic and reducing developer support requests from 3 per day to less than 1 per week.

Sep 2020 - Dec 2020

Automation Engineer @ Charter Advanced Technologies at
http://kforce.com

- Implemented a provisioning pipeline using Foreman and AWX, reducing deployment time by 30%.
- Pioneered the design of a scalable network architecture for next-gen VR and gaming services, achieving low-latency and high-availability for edge computing solutions.
- Enhanced edge device operations by developing robust automation scripts and tools, improving efficiency and reducing manual intervention by 40%.

May 2019 - Sep 2020

Automation Engineer @ Comcast Applied AI at
https://turnberrysolutions.com

Comcast's Applied AI team built the tooling and pipeline necessary to delievery better home security through the use of computer vision, audio analysis and anomoly detection machine learning models developed by in-house data scientests.

- Enhanced machine learning models developed by Comcast's internal data scientist teams, facilitating configurable data sources, domain logic, data transformations, and overall extensibility.
- Developed a prototype using Python 3.7 and Tensorflow 1.12 with computer vision to detect various types of deliveries, improving detection accuracy by 25%.
- Developed tools that empowered research teams to rapidly develop, perform A/B testing, and deploy machine learning models with integrated metrics collection, monitoring, and failover, reducing model deployment time by 30%.
- Collaborated with a DevOps team to standardize automation, infrastructure, and the Automated Machine Learning Platform stack configuration using Amazon AWS, EKS, IAM, and EC2, improving system reliability and scalability.
- Created a universal, plug-in-based library in Python to transparently gather internal application metrics, streamlining metrics collection and improving system monitoring.
- Enhanced a GoLang library to integrate with various Pub/Sub systems, improving system interoperability and data flow efficiency.

Apr 2019 - May 2019

Senior Android Engineer -> Senior Staff Engineer at
https://aetna.com

- Planned and implemented a complete vertical stack for integrating with the first CVS API, including technology selection, CI/CD pipeline setup, infrastructure, DevOps, and back-end services, resulting in seamless integration and enhanced system interoperability.
- Collaborated closely with product teams to refine and improve feature sets, leading to increased user satisfaction and feature adoption.
- Continued to work with the Android architecture team to refine and expand the unified architecture for the platform, improving codebase scalability and maintainability.
- Mentored and conducted lessons on engineering best practices, including Inversion of Control, writing testable code, dependency injection frameworks, Kotlin basics, Kotlin coroutines, and channels, resulting in improved code quality and team skill development.
- Introduced scalable and maintainable design pattern proofs-of-concept, such as a decorator pattern for moving metadata out of core logic, a self-binding RecyclerView library, and a reusable questionnaire component, improving development efficiency and code maintainability across multiple feature teams.
- Spearheaded and facilitated the transition from Java to Kotlin as the primary development language on the Android platform, improving code readability and reducing bugs by 30%.
- Provided preliminary scoping and technical design for integrating the Aetna Health Android application with Google Fit API, enhancing app functionality and user engagement.
- Advocated for and formed an architecture team to plan, define, document, and implement a unified architectural framework, facilitating proper application layer isolation and improving system modularity.

EDUCATION (1)

Bachelor's Applied Physics, Applied Mathetmatics, Computer Science at Metropolitan State University