

Performance Profile: TTS DevTools Platform Engineer

Opportunity Overview

This opportunity is located in the Technology Transformation Services (TTS) Solutions Division's Accelerators portfolio on the new DevTools team. The DevTools team is remote-first and forming a small cross functional team with skills including platform engineering, application development, security engineering, and product management.

The DevTools mission is to provide shared tools and services that allow TTS teams (such as USA.gov, Login.gov, Cloud.gov, and 10x) to ship digital services quickly, easily, and sustainably. DevTools works to make the right thing the easy thing, greatly reducing the effort needed to develop and operate delightful, secure, and compliant digital services to the American public.

Position Summary (Public)

As a Platform Engineer in DevTools, you'll be part of a cross-functional team to deliver developer-centered products using agile methodologies and modern software development practices while building capacity for product innovation in government.

The Platform Engineer focuses on "eating complexity" through high quality abstractions on top of reliable and secure infrastructure.

Platform Engineers on our team are:

- Experienced with developing and maintaining cloud based platforms with high availability, security, and compliance requirements.
- Experienced with modern infrastructure as code practices that leverage automated testing of functionality, structure, accessibility, and security.
- Experienced users of continuous integration, delivery, and deployment.
- Fluent in at least one declarative infrastructure tool like Terraform or Pulumi.
- Experienced implementing production solutions with IaaS and PaaS offerings from AWS, Azure, and/or GCP.
- Stewards of the appropriate reliability and scalability of services, leveraging Site Reliability Engineering principles and learning from incidents.

Key Objectives

Objective #1: Develop infrastructure as code to support services, tools, patterns, and components for community use

- Apply software engineering principles in all aspects of design, development, and operation of the layers on which DevTools services and offerings run.
- Build and maintain infrastructure CI/CD pipeline components and examples that provide a full suite of guardrails for TTS systems.

- Leverage infrastructure expertise and production experience to build and scale DevTools services in an efficient, cost effective, reliable, and secure manner.
- Work with the team to meet quality standards for any product you build.

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- Technical leadership in design, development, and delivery of platforms and cloud infrastructure.
- Facilitates team decision making based on complex constraints and data.
- Sharing technical expertise with team members and users through pairing, examples, documentation, and presentations.
- Extensive skill in modern platform engineering including containerization, observability, and self-service automation.

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- Participates in design, development, and delivery of platforms and cloud infrastructure.
- Participates in team decision making based on complex constraints and data.
- Sharing technical expertise with team members and users through pairing, examples, documentation, and presentations.
- Skill in modern platform engineering including containerization, observability, and self-service automation.

Objective #2: Developer, security, and compliance support

- Use DevTools products on real and sample services and look for areas of improvement.
- Use qualitative and quantitative data from systems and developers to improve the resilience of DevTools services and the services that depend on them.
- Work closely with security engineers to bake security into the platform, meet and exceed compliance requirements, and reduce burden on developers.

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- Reduce cognitive load for all engineers in TTS through creation and refinement of reusable, tested, secure, and compliant infrastructure components defined in code.
- Regularly interact with the TTS developer community and beyond to inform DevTools efforts and share our capabilities.

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- Reduce cognitive load for all engineers in TTS through contributing reusable, tested, secure, and compliant infrastructure components defined in code.

Objective #3: Work effectively in the federal government

- Develop and maintain knowledge of software factory and platform concepts and how they are leveraged in government.
- Understand risk management frameworks and Authorization to Operate (ATO) concepts.

- Keep up-to-date on policies, regulations, and requirements that impact digital services, and seek ways in which DevTools can reduce the burden of these requirements on digital service teams.

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- Apply expert knowledge of and expertise in driving and implementing technology solutions that overcome significant challenges resulting from complex or bureaucratic environments or technically difficult problems.
- Apply expert skill in developing and maintaining positive relationships at various levels within an organization and championing diversity, equity, inclusion, and accessibility.

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- Implement technology solutions that overcome significant challenges resulting from complex or bureaucratic environments or technically difficult problems.
- Develop and maintain positive relationships at various levels within an organization and champion diversity, equity, inclusion, and accessibility.