

## Performance Profile: TTS DevTools 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 an 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 Engineer is both a builder of tools and an embedded voice of the developer community.

Engineers on our team are:

- Experienced with developing and maintaining public facing digital services with high availability, security, and compliance requirements.
- Experienced with modern software development practices like test driven development and leverage automated testing of functionality, structure, accessibility, and security.
- Experienced users of continuous integration, delivery, and deployment.
- Fluent in one or more of the core languages used by most TTS development teams: Javascript, Python, and/or Ruby.
- Open to learning more of the above languages and relevant frameworks to help build out patterns and tools for use by other TTS development teams.

### Key Objectives

#### Objective #1: Develop services, tools, patterns, and components for community use

- Apply software engineering principles in all aspects of design, development, and operation of DevTools services and offerings.
- Build and maintain CI pipeline components and examples that provide a full suite of guardrails for TTS core programming languages and frameworks.
- Leverage language expertise and production experience to tune pipelines for fast feedback and safe continuous deployment.

- Seek to understand and center the needs of our customers (the developers of TTS).
- 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 digital products or services.
- 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 at modern product development practices including agile/iterative software development, use of open source tools or techniques, and user-centered product approaches.

#### **Objective #2: Developer advocacy**

- Use DevTools products on real application code and look for areas of improvement.
- Use qualitative and quantitative data from systems and users to identify improvements to improve the user experience.
- Stay on top of new technologies and how they could help solve developer problems.
- Pay attention to well-supported open source product offerings that can be reused in a government context to solve common problems.

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- Empathize with TTS developers and advocate for change to make their work easier, safer, and more sustainable.
- Regularly interact with the TTS developer community and beyond to inform DevTools efforts and share our capabilities.

#### **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.