

Torrey Hogan

SENIOR BACKEND ENGINEER

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SUMMARY

Backend engineer with 6 years of experience building and maintaining production Python services for emergency response, location, transcription, and payments products. Strong background in API development, WebSocket workflows, AWS, Kubernetes, observability, and incident response.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript

Backend & Data: Django, Flask, aiohttp, REST APIs, WebSockets, PostgreSQL

Cloud & Operations: AWS, S3, Kubernetes, Docker, Datadog, PagerDuty

EXPERIENCE

Senior Software Engineer

Sep 2022 - Dec 2025

RapidSOS | Core Backend and Real-Time Transcription Teams

- Built and maintained Python services using aiohttp for emergency-response location and real-time transcription workflows, integrating WebSocket audio, S3 storage, speech providers, and downstream APIs.
- Built multilingual speech workflows with model evaluation, confidence controls, provider fallback, audio transcoding, and speaker-language assignment.
- Built a reusable evaluation tool for comparing speech-to-text models using live and prerecorded audio before production rollout.
- Kept transcripts available during audio-service outages and propagated call IDs across services to improve traceability and incident debugging.
- Preserved audio continuity across WebSocket reconnects and Kubernetes rollouts by resuming S3 uploads, tracking active sessions, and implementing graceful shutdown.
- Modernized services to Python 3.10, replaced legacy XML parsing, added Datadog metrics and dashboards, and resolved production incidents in a PagerDuty on-call rotation.

Software Engineer II (promoted from Software Engineer)

Mar 2019 - Sep 2021

Gaia GPS / Outside | Web Team

- Built subscription upgrades across Google Play, the Apple App Store, and Stripe, increasing subscription upsells by 40% and reducing upgrade-related support tickets by 80%.
- Restructured the user-folder data model and Django API, reducing folder response times by 55%.
- Implemented cross-product authentication and subscription-benefit access between Outside and Gaia GPS following the acquisition.
- Refactored the sync API from atomic to non-atomic transactions, reducing failed sync attempts for iOS and Android clients.

Senior Field Design Engineer

2015 - 2018

PG&E / Insight Global

- Verified natural-gas pipeline designs and maintained documented traceability from design through construction.
- Trained and led engineers performing quality control, production tracking, and data-driven planning across design and construction teams.

EDUCATION

California State University, Chico | Bachelor of Science, Mechanical Engineering