

Travis Stark

Sterling, VA

Open to relocation

stark.travis@outlook.com

(813) 362-8598

travisstark.github.io

EXPERIENCE

• Amazon Web Services — CloudWatch

Arlington, VA

Software Development Engineer

December 2024 – Present

- Delivered the UI for the new in-console CloudWatch Agent management experience, enabling guided installation and configuration with automatically detected solution recommendations across 16 AWS regions. Reduced agent setup time from 4.7 hours to under 5 minutes (98% improvement).
- Reduced EC2 instance and Agent status table load times from 25–29s to 8–12s (3x improvement) by tuning concurrency and retry buffering for large-scale fleets.
- Restored the CloudWatch Agent performance dashboard by resolving ingestion failures and backfilling historical telemetry, re-enabling regression detection.
- Raised CloudWatch Agent log event limits from 256KiB to 1MiB to align with CloudWatch Logs API limits and corrected log line splitting logic to prevent truncation-related data loss.
- Improved CloudWatch Agent test infrastructure by fixing Windows/Linux integration failures, adding end-to-end coverage for the EKS Addon, automating EC2 OS image updates via Lambda, and reducing unnecessary test runs through repo rules and custom tooling.
- Created the project framework and mentored a 12-week intern through the design and implementation of OpAMP client support within the CloudWatch Agent, enabling remote configuration of large EC2-based agent fleets.
- Provided on-call support for the CloudWatch Agent, resolving customer-impacting issues and completing production releases for EC2, ECS, and EKS.
- **Tools:** Go, Java, TypeScript, React, CloudWatch, SSM, CDK, Lambda, EC2, EKS, DynamoDB, Terraform, Playwright, GitHub Actions, EC2 Image Builder, OpenTelemetry (OpAMP), k9s

• Amazon

Arlington, VA

Software Development Engineer

November 2021 – December 2024

- Developed and launched Guided Workflows, a greenfield workflow orchestration platform adopted across Amazon HR and used by Amazon's global employee base.
- Led development of WorkflowUI, a schema-driven rendering engine and UI library powering all Guided Workflow experiences across HR organizations.
- Delivered a unified Life Events experience supporting end-to-end pregnancy journeys as well as immigration and business-travel processes for Amazon's 1.5 million employees worldwide.
- Designed and implemented a data pipeline for the Life Events application, defining metrics with product and BI teams to analyze usage and map employee journey flows.
- Drove security and privacy readiness for multiple launches, coordinating cross-team reviews to ensure compliance with Amazon standards.
- Implemented CloudWatch metrics, dashboards, and alarms across Guided Workflows and Life Events, and shared a CDK template that enabled other teams to accelerate their monitoring setup.
- Ensured accessibility and localization compliance for WorkflowUI as it expanded to global HR domains, enabling downstream HR systems to meet Amazon standards.
- Provided on-call support for Guided Workflows, WorkflowUI, and Life Events, maintaining service availability during global launches.
- Mentored engineers across levels and time zones, providing design guidance and code reviews for teams adopting Guided Workflows and WorkflowUI.
- Created onboarding guides, runbooks, and documentation to support new hires and cross-team integrations.
- Built developer productivity tooling, including custom Tampermonkey extensions adopted across the team.
- **Tools:** Java, TypeScript, React, DynamoDB, ECS, Lambda, API Gateway, CloudWatch, CDK, Spark SQL, Redshift, S3, Athena

• Skyline Software Systems

Herndon, VA

Software Engineer

October 2020 – November 2021

- Primary developer for plugin features extending a CesiumJS-based GIS application and TerraExplorer, Skyline’s desktop .NET/COM 3D GIS platform.
- Built a plugin-based 3D measurement tool for calculating distances and elevation differences on a globe.
- Implemented a gazetteer search system using .NET, OpenStreetMap/GeoNames data, and PostGIS, including a command-line loader.
- Developed tools for saving and displaying WMS imagery and 3D Tile layers.
- Created a reporting service to analyze user data usage for a server-hosted GIS application.
- **Tools:** C#, .NET (Core & Framework), PostgreSQL/PostGIS, JavaScript, CesiumJS, TerraExplorer API (COM), Python, Selenium, FlatBuffers

• WebstaurantStore

Tampa, FL

Software Engineer

January 2019 – October 2020

- Built a .NET Core API backed by Elasticsearch and Redis to power product search, autosuggest, and faceted filtering.
- Improved search accuracy by designing and tuning Elasticsearch queries, including a custom text analysis plugin.
- Enhanced API performance with Redis cache compression and optimized query execution.
- Validated API behavior using Pact contract tests and unit/integration tests; executed deployments via Azure DevOps and Octopus Deploy.
- Mentored new team members and contributed updates to the internal API client NuGet package.
- **Tools:** C#, .NET Core, Elasticsearch, Kibana, Redis, SQL, Azure DevOps, Octopus Deploy, Pact, Grafana, Sentry

• Greenway Health

Tampa, FL

Software Engineer

June 2017 – January 2019

- Owned development and administration of Greenway’s Oracle CPQ sales quoting system.
- Designed and implemented workflow improvements across Finance, Sales, and Legal.
- Managed integrations between Oracle CPQ and Salesforce (SOAP/REST).
- Mentored a junior engineer in CPQ development and business workflows.
- **Tools:** Salesforce, Apex, Oracle CPQ, SQL

• Net Synergy Virtual Solutions

Tampa, FL

Software Engineer

July 2016 – June 2017

- Developed and maintained CoffeeScript-based RPA automation tools.
- Built internal dashboards to improve task management and developer velocity.
- **Tools:** CoffeeScript, JavaScript

SKILLS

- **Languages:** C#, Go, Java, TypeScript, JavaScript, Python, SQL
- **Backend:** .NET (Core & Framework), DynamoDB, Redis, Elasticsearch, PostGIS, Spark SQL, Redshift
- **Frontend:** React, TypeScript
- **Cloud & Infrastructure:** AWS (EC2, Lambda, ECS, EKS, S3, CloudWatch, CDK, API Gateway, Athena), Azure, Terraform
- **Observability & Testing:** OpenTelemetry (OpAMP), Playwright, Selenium, Grafana, Kibana, Sentry
- **Developer Tools:** Git, GitHub Actions, Azure DevOps, Octopus Deploy

PROJECTS

- **Washington DC Metro App:** .NET Blazor Server app hosted on Azure App Service with Cosmos DB; displays nearby stations and real-time train arrivals.
- **OpenStreetMap Route Planner:** C++ A* search tool computing shortest paths on OpenStreetMap datasets.

PRESENTING

- **Intro to ML.NET** — St. Pete .NET; Tampa Code Camp (2019, 2020)
- **Azure Cosmos DB and .NET Core** — St. Pete .NET (2020)

EDUCATION

- **University of Florida** Gainesville, FL
Bachelor of Science in Chemical Engineering Aug. 2011 – May 2016