

Troy Fischer

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EXPERIENCE

Software Engineer - Lead

Aug 2025 - Present

Capital One

Chicago, IL

- Spearheading the architecture of next-generation feature computation systems, aligning performance and scalability requirements across multiple engineering teams and product owners.
- Establishing cross-team engineering strategies by defining a canonical set of application behaviors that decouples flexible base logic from optimized execution engines.
- Continuously extending an inner-source SDK to enable on-demand feature transformations via polars SQL, bridging capabilities between diverse data platforms.
- Mentoring junior engineers on code quality and system design while serving as a technical interviewer to assess incoming talent.

Software Engineer - Principal

Jan 2024 - Aug 2025

- Consolidated our current feature computation service down from 5 separate deployments to 1.
- Cut our provisioned concurrency costs by 95% by taking advantage of auto scaling policies.
- Decreased the size of our application deployment by nearly 66% from 28MB to 10MB
- Replaced our legacy feature computation service with our new serverless system which is projected to save \$1.5M per year in RTE costs and \$367k per year in database costs.
- Improved feature authoring experience with new CLI utilities, enabling live results on local machines.
- Modularized feature computation libraries to support flexible installation of any arbitrary set.
- Created developer tooling to provide a cleaner interface for mocking external data sources required during feature computations.

Software Engineer - Senior Associate

Feb 2022 - Jan 2024

- Built solutions for on demand data transformations using serverless AWS infrastructure to drive credit card decisioning processes.
- Authored code for multiple AWS lambda deployments from initial design to production release.
- Completed a feature launch estimated to save the company \$6M annually by stopping undue credit card rewards.
- Implemented the topological sort algorithm to enable dynamic dependency resolution for on demand requests.
- Instrumented performance tests using the k6 framework to ensure our service level agreements.
- Designed a feature authoring self service framework allowing data analysts to build custom data transformations by translating business requirements to python code.

Software Engineer - Senior Associate

March 2021 - Feb. 2022

L3Harris

Palm Bay, FL

- Maintained a PHP backend to process command and control requests from a browser based GUI.
- Gained experience using JQuery to provide dynamic front end content updates.
- Upgraded our PHP MVC framework from Yii 1.1 to Yii 2.0.
- Developed automated test suites for SOAP web services using SoapUI.

EDUCATION

University of Florida

Gainesville, FL

Bachelor of Science in Computer Science

Aug. 2015 - May 2019

OPEN SOURCE CONTRIBUTIONS

Doom Emacs: Version Control Bugfix

TECHNICAL SKILLS

AWS Certified Solutions Architect

AWS Services: Lambda, SQS, SNS, Dynamo, S3, Cloudformation, Cloudwatch, IAM

Languages: Python, Go, Java

Developer Tools: Emacs, git, k6, Jenkins, docker

Libraries: pydantic, boto3, httpx, asyncio