

Eric Fischer

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<https://github.com/efischer19>

PROFESSIONAL EXPERIENCE

Catalant Technologies

Senior Software Engineer

Mar 2020 - Present

- Lead efforts to improve organizational culture, developer efficiency, and code quality by applying industry best practices to our processes regarding commit hygiene, automated linting, and management of third-party dependencies.
- Contribute to team development of modernized frontend components to clarify and expedite common user workflows, increasing multiple top-of-funnel metrics for the platform. (Python, VueJS)
- Gather requirements for, establish consensus around, and lead initial development of our first microservice, which manages Catalant-relevant notifications from subsystems across various channels. (Docker, Kubernetes, Python)
- Design a more scalable schema to be the foundation of all work tracking data on the platform, then migrate all existing data into the new schema with no downtime to keep project payments flowing smoothly. (SQL, Python)

Amazon

Software Development Engineer II

Oct 2018 - May 2019

- Developed client-side code to update machine learned models on Alexa devices, leading to universally improved response time and false wake metrics across the fleet as new models deployed more frequently. (Java/Android, C++)
- Communicated frequently with server-side counterparts to ensure consistently reliable performance at scale. (AWS)
- Worked closely with multiple device teams worldwide to test model code against all devices and coordinate rollouts.

edX

Senior Software Engineer

Aug 2015 - Sep 2018

- Spearheaded development of a new pipeline to greatly increase frontend development efficiency. (React, Docker)
- Designed and migrated critical data into a new system to make users' grades more rapidly and consistently available, addressing a common complaint and leading to increased confidence in the edX platform. (Python, Celery, SQL)
- Took over ownership and maintenance of peer essay grading module, whose smooth continued existence allows MOOCs to expand beyond multiple choice questions and improve online learning outcomes. (Python, Javascript)
- Promoted best practices and consistent designs as a member of the Architecture Review Board.

FactSet Research Systems

Software Engineer

Jun 2011 - Jul 2015

- Contributed heavily to team effort migrating all user data off a variety of legacy systems into a centralized, modern data service, allowing for continued smooth use of user data as those legacy systems were sunsetted. (SQL, C#, C++)
- Took over ownership and maintenance of the Script Builder application, allowing users to communicate with and build compound reports from all other apps in the workspace. (C#, .NET)
- Held an active role in the User Data Authorization group in order to establish and maintain the highest organizational standards of security with regard to sensitive customer data.

OPEN SOURCE CODE

- <https://whassat.info> - Camera-based object detection with multilingual audio/visual labels in a Progressive Web App. <https://github.com/efischer19/whassat> (HTML5, web workers, TensorFlow)
- <https://fischerthings.com> - Family photo blog using serverless authentication to minimize maintenance costs. <https://github.com/efischer19/ft-frontend> (VueJS, AWS)

EDUCATION

PURDUE UNIVERSITY

Bachelor of Science (B.S.) Mathematics and Computer Science