

Adam Fields

me@aef.me

Senior software engineer and machine learning enthusiast with 7+ years of experience scaling cloud-native web apps. Demos and code available on [Hugging Face](#) and [GitHub](#).

Experience

Sabbatical — May 2023 to Present

- Building text and image generation apps using PyTorch, Transformers and Diffusers.
- Currently exploring approaches of integrating LLMs into image generation pipelines.
- Wrote a from-scratch implementation of Stable Diffusion 1.5 with CLIP in Keras 3.
- Trained a LSTM on Shakespearean text for character prediction inspired by [Karpathy](#).
- Studied sequence modeling and forecasting with ARIMA, Prophet, and RNNs.
- Fond of classical ML algorithms like trees, support vectors, and gradient boosting.

Shopify, Senior Software Engineer — September 2021 to May 2023

- Built and maintained inventory management services for Shopify warehouses using TypeScript, Node.js, React, GraphQL, PostgreSQL, Kubernetes, and Terraform.
- Spearheaded the development of the Rework feature, enabling on-site repair of slightly damaged products, one of the most-requested features by customers.
- Improved SLA tracking accuracy by implementing the Multishipment feature, allowing the tracking of multiple shipments from a single ASN identifier.
- Designed and implemented API changes while adhering to SOLID principles.
- Authored React components for the dashboard using Shopify Polaris and Storybook.
- Mentored junior engineers and actively participated in code reviews.

Boston Globe Media, Software Engineer — April 2019 to September 2021

- Migration of Globe.com from JSP to a custom server-rendered React stack on AWS.
- Helped develop many components for the 2020 election including the electoral college map, congressional seat tracker, and Massachusetts county results.
- Transformed Boston.com into a modern Wordpress app with React and Docker.
- Improved page load times by optimizing ads and lazy-loading images.
- Collaborated across the organization including the editorial team.

FRT, Software Engineer — October 2016 to April 2019

- Maintained distributed systems using Apache ZooKeeper for service discovery.
- Rewrote auth service from 389 LDAP to Azure AD with Ping Identity for SSO.
- Migrated internal and external apps from Angular.js to Angular 2 and TypeScript.

Education

Bridgewater State University

Bachelor of Science, Psychology