

Stephen Fairchild

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I'm an senior engineer that can quickly get up to speed in almost any environment. My domain experience is mainly in automotive but I'm happy to jump into something new and challenging. I'm great at asking hard questions and quickly making mental models and visual maps of large and complicated domains. I thrive in an environment where I'm tasked with leading a team to solve the org's most challenging and complex problems. I love rapid prototyping and I'm pretty experienced with many utilities: GNU/Linux, NodeJS, Golang, Datadog, Linux, AWS, Rust, MySQL, MongoDB, Postgres, Docker.

WORK EXPERIENCE

ACV Auctions

Staff Software Engineer

April 2022– Present

Buffalo, NY

- Drove growth to the marketplace by creating the Autobuy program. It automatically bid on cars on the ACV Marketplace based on a set of rules that dealers define. Ultimately leading to more cars being sold and increasing the company bottom line.
- Lead dev and architect on MAX Photo Services - a real time photo system that enables dealers across the world to host photos with ACV MAX. This was a large migration from a 3rd party photo vendor to an in-house tool leveraging the Cloudinary API. ~30m photos/month & 12TB storage. It's a massive real-time streaming application.
- Lead architect over productionizing ACV Viper, a tool that enables dealers to quickly appraise and make offers on any car.
- Led system design interviews and more across ACV over the course of 5 years hiring some of our most well-established Staff+ engineers and L4 engineers.
- Lead architect and developer for our GraphQL API with many client consumers including 3rd party customers and internal mobile and web teams. This API receives on average ~1m/requests per minute
- Mentored and led a group of 10 globally distributed contractors plus several in-house FTEs
- Created Staging environments and led initiative to get our most critical apps under integration and performance tests
- Developed and deployed many developer tools to help ease the quality of life when building applications
- Inherited a vast Mongo database without many rules and procedures but over the course of a few months quickly trained and mentored the team on how to use it and be productive during the feature development and product outages
- Engineering consultant for senior leadership and product. Frequently flew to headquarters in New York to assist with roadmap planning, resource allocation, and presentations to the ACV CTO.

Research Square

Senior Software Engineer

Sept. 2018 – April 2022

Durham, NC

- Led the Service Delivery team during a large migration from legacy ZF3 (PHP) to an SPA with a React frontend and various backend APIs
- Managed a sizeable event-driven system that moved data between various systems using AWS SNS/SQS
- Built, refactored, and maintained a complex eventually consistent MySQL/Elasticsearch read/write architecture for servicing multiple search applications
- Created the React Guild to standardize frontend technologies and knowledge share across teams and to help unblock teams with technical frontend challenges they were facing.
- Created test harness to write BDD Gherkin-style test cases to help us iterate faster on a large legacy enterprise domain.
- Taught Domain-Driven Design at the company and was frequently brought across teams as a consultant to review domain models and architecture to make sure our business logic would scale and be maintainable long term.

Pursuant

Software Engineer

May 2015 - Sept. 2018

Dallas, TX

- Full stack developer on an in-house Mailchimp-like clone for non-profits (Churches, Shelters, and more)
- Created a segmentation tool that aggregated data from a large MSSQL database into a mailing list that went out weekly to mass users.

Engineering Contractor

Software Engineer

May 2014 - Sept. 2015

Dallas, TX

- Left Amazon to become a freelance contractor picking up jobs through all the large job boards at the time (Upwork, Elance, etc.)
- Leased an office building downtown and ran a small-time software shop for a bit where I led sales, project management business development, customer relations, and more while managing a team of contractors that did project work
- Developed several custom Wordpress themes and a real-time bidding engine for a B2B auction system

Amazon

Data Analyst

Oct. 2010 – Oct. 2014

Seattle, WA

- Managed SQL Queries and applications driven by those in a large data warehouse backed by Oracle.

SKILLS & INTERESTS

- Programming, Monitoring and Alerting and Observability, Test Frameworks, System Engineer tooling and components.