

SUMMARY

Nothing gratifies me more than breaking down a complex problem and solving it. As a proponent of scalable, reliable, and sustainable software architecture/design, I galvanize those around me to create better quality software for both customers and fellow developers. In addition to my technical competencies, I collaborate well with cross-functional teams, mentor junior engineers, and take on technical leadership and project management roles. I'm the person my team goes to for debugging help.

EXPERIENCE

Software Engineer - Workiva (04/2023 - present)

Individual contributor, project lead, and technical lead. Mid-sized company offering an industry-leading cloud-based document and data collaboration platform. Working on the Chains product, which allows users to create and manage automated workflows in the Workiva platform and across other data sources.

Tech stack: GoLang, Elixir/Phoenix, Ruby on Rails, Java, Docker/Kubernetes/AWS

Accomplishments include:

- Project lead and core contributor for a new product that allows users to connect to a new data source (NetSuite SuiteAnalytics). Processes large datasets. OAuth2 authentication.
- Identified, diagnosed, and corrected a poorly performing cron job, restoring the stream of business intelligence data that had failed to complete syncing for months.

Senior Software Engineer - Blinker (06/2020 - 02/2023)

Top contributor at a small auto sales/financing platform company. Started out as an individual contributor, and grew into a mentor, technical lead, product liaison, and project manager.

Tech stack: Elixir/Phoenix (core competency), GraphQL (core competency), React/TypeScript (familiar), Docker/Kubernetes/AWS (familiar)

Accomplishments include:

- Helped the business pivot after our largest customer left by spearheading the redesign of the data models with cross-functional teams to align the system with business needs using an architecture based on Domain Driven Design. This resulted in a significant reduction of coupling and of the engineering hours required to add new products.
- Established design patterns that enforce separation of concerns, robust data pipelines, thorough unit & integration testing. Set up tools to flag PRs that reduce test coverage or make breaking changes to API contracts.
- Appointed as Technical Lead for several large projects. Collaborated with product to thoroughly define scope (including edge cases) and technical approach. Broke down product requirements into small single-purpose engineering tickets, accurately estimated engineering effort/schedule, and managed projects by prioritizing work.

- Improved user experience by proactively monitoring production logs and the error tracking system, optimizing slow database queries, and resolving the majority of bugs before they were reported by users.
- Created an inclusive, safe, and collaborative work environment by instituting regular retros, mentoring junior developers, and improving documentation. Consistent practice of thorough PR reviews. Encouraged team involvement in architecture discussions.
- Optimized third-party integrations by researching and prototyping to mitigate scarce documentation.

Junior Software Engineer - DispatchHealth (09/2019 - 06/2020)

Back-end engineer for a growth-phase healthcare startup. I collaborated on design, as well as implemented and maintained APIs. I worked on a small team, so I touched all parts of the app and was involved in architectural/process discussions and decision-making, as well as deployment and production troubleshooting.

Tech stack: Elixir/Phoenix microservices, Ruby on Rails main application, REST APIs, React/JavaScript

Accomplishments include:

- Solved several complex defects that had caused multiple rollbacks by writing scripts to simulate user behavior (making appointments, cars driving around town, etc).
- Spearheaded capturing API documentation and setting up mock servers. This resulted in clear API contracts for outside contractors, easy-to-use documentation for internal engineering teams, and enabled decoupling of front- and back-end tickets.
- Thoroughly defined requirements and interfaces with outside contractors & offshore teams. Took the lead on communicating API contracts, expectations, conclusions, and action items to follow up on.

Process Engineer - AECOM (01/2013 - 03/2019)

Worked as a consultant that managed client projects, integrated with cross-functional teams, and designed solutions that optimized technical performance, regulatory requirements, and costs.

Process engineering lead / main client contact / project manager. Designed & debottlenecked chemical processes (refineries, natural gas, and novel technologies). Determined appropriate technologies to produce the desired products. Optimized for cost and compliance with safety & environmental concerns. Simulated chemical and physical processes. Licensed as a Professional Engineer (P.E.).

SKILLS

Languages/Frameworks: Elixir/Phoenix, PostgreSQL, GraphQL & REST APIs, GoLang, websockets, Ruby on Rails, Docker, JavaScript, TypeScript, React, Java

Systems/Practices: agile/scrum, functional programming, object-oriented programming (OOP), clean code, microservices, Test Driven Development (TDD), Git, GitHub, CI/CD, Domain Driven Design (DDD)

EDUCATION

Turing School of Software & Design Back-End Engineering (03/2019 - 09/2019)

University of Colorado at Boulder MS Chemical Engineering (08/2010 - 12/2012)

Washington University in St Louis BS Chemical Engineering (08/2006 - 05/2010), Valedictorian