

Attila Domokos

LEAD SOFTWARE ENGINEER

with Leadership Experience

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I am a lead software engineer with functional programming and leadership experience, with strong focus on software quality and maintainable code design.

Notable Accomplishments

- Implemented horizontal data scaling by researching and implementing database sharding.
- Built a team of 12 engineers while leading the architectural design of our application. Under my technical leadership, the company doubled its customer base, grew its revenue by 400%.
- Assisted with the process of acquiring Series A and Series B funding.
- Led several products migration of Authn/Authz to an external service provider

Open Source Contributions

OPEN SOURCE CONTRIBUTIONS

- Creator of [light-service](#), an open-source Ruby gem for implementing series of actions
- Authored a [learning project](#) in Haskell with small, repeatable exercises

Work History

SpotHero

Staff Software Engineer, Chicago, IL [Sept. 2019 - Present]

* Led the engineering on the business-to-business side of the organization

Created KPIs and app that collected metrics for the b2b engineering group
Designed and built Kotlin service-templates, that helped us quickly create and deploy microservices on the JVM

* Migrated Authentication and Authorization to an external service provider

Worked across engineering teams to organize the switch-over, wrote Terraform scripts to deploy changes

TECH STACK:

Python, Django, Go(lang), Kotlin, Kafka, Kubernetes, Docker, PostgreSQL, Terraform, Node.js

Freckle Education and Future Finance

Principal Software Engineer, Chicago, IL - Remote [Sept. 2018 - Sept. 2019]

* Created a loan amortization schedule application

Created a loan amortization schedule application in Haskell. Added the necessary connecting code to our Rails API app, which mediated between the SQL Server legacy database and our Haskell service.

* Led an in-house intro to Haskell course

Leveraged my own learning project, [Haskell Katas](#) to teach introductory Haskell to other engineers at the company.

TECH STACK:

Haskell, Ruby, PostgreSQL, JavaScript, React, Flow, Docker

Kenna Security

Principal Software Engineer, Chicago, IL [Nov. 2015 - Aug. 2018]

* Explored Redshift as a data warehouse solution

Evaluated AWS Redshift for our data warehouse needs. Designed a star schema with its ELT process, researched window functions to create time-series data. Created a Go application to calculate surrogate keys and built a local build process for automated testing.

* Implemented database sharding

I unlocked my employer's unlimited growth potential by researching, designing, and implementing database sharding. Led a team of 4 engineers, we delivered our goals without slowing down app development. Built a fast, multi-threaded ETL to transfer existing clients' data into the sharded databases. Designed and built monitoring tools for the different schemas to keep them in sync.

* Shifted the company's code from monolith to microservices

Extracted the data importer application into a queue-based asynchronous Ruby app, moved shared logic into an internal gem.

TECH STACK:

Ruby, Go(lang), JavaScript, Ruby on Rails, RDS/MySQL, ElasticSearch, Redshift, AWS Lambda, Docker, Resque, Sidekiq, gRPC

Hireology

Chief Technology Officer, Chicago, IL [Feb. 2013 - Sep. 2015]

* "Brought home" the company's application from external contractors

As the company's first software engineer, I took over the project from external contractors. I maintained and enhanced it until the engineering team was able to take it over.

* Built a team of 12 engineers

I hired and managed front-end, back-end, QA and site reliability engineers. Set up engineering metrics to monitor our application performance and our delivery. Crafted [Engineering Core Values](#) and made sure the team adhered to those.

* Led the application's refactoring and quality improvement effort

Improved code quality by extracting business logic into Rails-independent service object. Added unit and Gherkin-based acceptance tests to the project, set up build process.

TECH STACK:

Ruby, Clojure, JavaScript, Ruby on Rails, PostgreSQL, Resque

Other Work Experience

I helped [Intuit](#) - MRI Software with their new application development. I led a team that developed a Business Intelligence tool by crafting dynamic SQL scripts with the help of NVelocity templates.

I worked for [Progressive Insurance](#) as a lead software engineer on the company's policy issuance system, which was the largest software development effort in the company's history.

Speaking Engagements

* "Blowin' Up Your Database" talk at the Ruby User Group - Chicago, IL [Mar. 3, 2018]

Described how we split our customers' data into smaller, sharded databases.

* "Simple and Elegant Rails Code with Functional Style" talk at RailsConf 2013 - Portland, OR [Apr. 29, 2013]

This talk was recorded by Confreaks and can be viewed on [my blog](#).

Education

* MS degree with a Dual-Major of Computer Science and Economics