

Ricardo Fabila Reyes

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Full-Stack Engineer with over 8 years of experience in the software development industry, specializing in Web Development, Backend Development, and DevOps. Proven track record in leading engineering teams, driving product growth, and optimizing systems for performance and scalability.

*Expert in building robust, secure applications using **Golang, Ruby, and TypeScript**, with a specialized focus on Functional Programming—including **Clojure, ClojureScript, and Elm**. Proficient in architecting cloud-native solutions on **AWS**, including serverless Lambda environments and event-driven microservices. Committed to delivering reliable and high-performance systems efficiently and on time.*

Staff Software Engineer

Bishop Fox, San Francisco, CA

Aug 2024 - Present

- Led and mentored a team of engineers from concept to execution, driving the ongoing rewrite of core platform components to improve scalability and performance.
- Developed a new **event-driven platform** enabling clients to continuously monitor attack surfaces and uncover security threats via public and proprietary discovery techniques.
- Architected and deployed serverless functions (**AWS Lambda**) using **ClojureScript** to build high-performance endpoints for the platform's **REST APIs**.
- Designed a microservices-based architecture, resulting in a 700% improvement in the time to discovery for client assets.
- Engineered RESTful APIs using **Golang**, significantly enhancing data integration across multiple internal and external platforms.
- Optimized PostgreSQL queries, increasing data retrieval speeds by over 200%.
- Migrated secrets from AWS Secrets Manager to a custom **PostgreSQL/AWS KMS** solution, reducing annual data management costs from tens of thousands of dollars to zero.
- Authored comprehensive technical documentation regarding system architecture, coding conventions, and best practices to streamline team workflows.
- Increased code coverage across new microservices by developing robust automated testing scripts and unit/integration tests.

Technical Skills: Golang, ClojureScript, Python, JavaScript, PostgreSQL, DynamoDB, Redis, AWS (Lambda, KMS), Kafka, Docker, Kubernetes, GitHub, Jira, Microservices Architecture, RESTful APIs, Agile/Scrum, CI/CD

Senior Full-Stack Engineer and DevOps

Mento, Los Angeles, CA

Nov 2023 - July 2024

- Worked on the complete rewrite of two web applications from Next.js to React.js with TypeScript, utilizing Vite as the build tool and Tailwind CSS on the frontend, and **Rails** using **Ruby** for the backend.
- Migrated all infrastructure from Vercel to DigitalOcean, reducing cloud costs by 50% and improving deployment times by 200%.
- Developed a **recommendation system** using **machine learning algorithms**, enabling faster and more efficient matching of clients with coaches, thereby improving client satisfaction and optimizing the client-coach matching process. This has been key in **scaling the product the user base increases**.
- Developed a machine learning algorithm to **predict potential customer churn**, leading to improved customer retention and enhanced user satisfaction.
- Implemented a job queue system using RedisDB for asynchronous tasks such as email notifications and maintaining Comechat information synchronization, enhancing system performance and reliability.
- Enhanced application access and visibility in production by implementing a bastion virtual private server, enabling secure SSH access to the production environment.
- Reworked the CI/CD pipeline using custom GitHub Actions and DigitalOcean, streamlining deployment processes and increasing deployment efficiency by 100%.
- Unified the user model by migrating to a consolidated user-role structure, facilitating the creation of new features pivotal for securing Series A funding.

- Collaborated with designers to establish a component design system using MUI (a React component library), standardizing the design and improving consistency across the web application.

Technical Skills: JavaScript, TypeScript, Go, Python, Ruby, Ruby on Rails, Apache, React.js, Next.js, Tailwind CSS, MUI (Material-UI), PostgreSQL, Redis, Docker, Vercel, DigitalOcean, GitHub Actions, Custom CI/CD Pipelines, Machine Learning Algorithms, Recommendation Systems

Senior Software Engineer

Bishop Fox, San Francisco, CA

Nov 2021 - Nov 2023

- Developed multiple microservices in the cyber-security industry using Go, Docker, Kubernetes, RabbitMQ, Kafka, and PostgreSQL, ensuring scalable and efficient solutions.
- Optimized and ported legacy microservices from Python to Go, **enhancing API performance by 10,000%**.
- Reengineered the CI/CD pipeline by implementing custom GitHub Actions and commit hooks, streamlining deployment processes and increasing development efficiency.
- Created new mage actions and commit hooks to automate the generation of OpenAPI specifications directly from the codebase, significantly reducing manual documentation efforts.
- Developed an internal CLI tool to interact with proprietary APIs, enabling faster and more efficient workflows across various environments.
- Designed and launched an open-source package manager, Fox, facilitating the sharing of programs on private repositories within teams. You can check it out at www.getfox.sh

Technical Skills: Go, Python, JavaScript, TypeScript, React.js, Next.js, PostgreSQL, Redis, DynamoDB, Docker, Kubernetes, AWS, DigitalOcean, GitHub, Jira, RabbitMQ, Kafka, GitHub Actions, Mage, Sidekiq, CI/CD Pipelines, Microservices Architecture, RESTful APIs, Agile/Scrum, Machine Learning Algorithms, OpenAPI Specifications

Software Engineer

Encora, Merida, Yucatán

Jun 2019 - Dec 2020

- Developed intricate and feature-rich web applications using React.js and TypeScript, leveraging WebSockets to implement real-time functionalities.
- Created a flagship application tailored for the restaurant industry, incorporating key features such as real-time messaging similar to Slack, add-ons functionality, a robust scheduling system, task management capabilities, and a custom calendar for efficient worker management.
- Overhauled the real-time chat component across all applications by migrating from BackboneJS to React.js, resulting in enhanced performance and a more responsive user experience.
- Implemented a comprehensive fuzzy search feature throughout the application, significantly improving user experience and search efficiency.
- Collaborated with the design team to develop a custom component design system using MUI (Material-UI), ensuring consistency and a seamless user experience across the web application.
- Utilized Redux.js for state management, optimizing data flow and improving application scalability.
- Enhanced front-end performance and maintainability through best practices in front-end development, resulting in a more robust and user-friendly application interface.
- Developed multiple endpoints in PHP for legacy systems.

Technical Skills: TypeScript, JavaScript, React.js, Redux.js, Docker, GitHub, Jira, WebSockets, BackboneJS, OpenAPI Specifications, Agile/Scrum

Full Stack Engineer

Yellowme, Merida, Yucatán

Aug 2018 - May 2019

- Independently developed a full suite of microservices for a fintech company to accelerate the car loan approval process.
- Integrated multiple third-party services to automate identity validation, credit score retrieval, and real-time insurance quotes.
- Built and deployed scalable web applications and APIs using Node.js, TypeScript, and JavaScript.
- Designed and managed relational data structures using SQL to ensure data integrity for sensitive financial information.
- Developed interactive front-end interfaces using React.js and deployed services via Heroku.

Technical Skills: Laravel · JavaScript · TypeScript · Full-Stack Development · Front-end Development · Node.js

Senior Software Engineer

Sr. Revólver, Merida, Yucatán

Jul 2016 - Jul 2018

- Solely designed and developed "Super 15", an exclusive, invite-only web application for a local shop offering both food and groceries, which enables customers to order food online, featuring comprehensive functionalities such as report generation, receipt printing, stock management, card payments, promo codes, and other essential e-commerce features

Technical Skills: JavaScript · TypeScript · Laravel · PHP · ELM. Software Design · React JS

OPEN SOURCE AND PERSONAL PROJECTS

fox (getfox.sh): Designed and launched an open-source package manager in **Golang** that enables teams to share and install programs from private GitHub repositories. Built to provide a streamlined, private alternative to homebrew for macOS and Linux environments.

Hapi (github.com/ricardofabila/hapi): Developed a configurable CLI tool in **Golang** that allows users to create custom commands for web APIs. It features robust support for multiple environments and automated authentication handling.

Red Panda: Built a high-performance note-taking application alternative to apps like Notion/Obsidian. Developed in **Rust** to ensure memory safety and speed, featuring full cross-platform support for Windows, macOS, and Linux.

EDUCATION

Systems and Information Technologies Engineering in Systems Engineering
Universidad del Mayab, México

Jan 2018
