







RICHARD BATES

SENIOR BACKEND ENGINEER

CONTACT

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SKILLS

LANGUAGES

- Ruby
- Javascript
- Rust

FRAMEWORKS/LIBRARIES

- Ruby on Rails
- Docker
- Kubernetes
- RabbitMQ
- Sidekiq
- Elasticsearch
- GraphQL

CLOUD

- AWS
- Heroku
- Github Actions

EDUCATION

IMPERIAL COLLEGE LONDON
B.Sc Biochemistry
London – 2015

MAKERS ACADEMY
Web Development & Programming
London – 2016

PROFILE

Polyglot software engineer with over 5 years experience scaling backend systems in the fintech and healthcare industries. Proven record in leading engineering teams, embedding practices and agile methods of working.

EXPERIENCE

LEAD INSTRUCTOR

LeWagon / Singapore / Sep 2022 – May 2023

- Led two full-stack web development bootcamps (Ruby / JS), receiving a feedback NPS score of 92.
- Functioned as tech lead and product manager for the final projects of 35+ students.

SENIOR BACKEND ENGINEER

Pave / London / Jan 2020 – April 2022

B2C mobile app for users to build their credit scores based on a combination of credit file and open banking data.

- Led the design and development of open banking data Rails API's to integrate 600,000 users with all three major credit agencies.
- Deployed CI/CD and tooling such as Segment, AppSignal and New Relic to help identify build and performance issues upon rapid user growth.
- Rebuilt the report generation system utilising Sidekiq async batching and optimised SQL queries - reducing runtime from 1 hour to 2 minutes.
- Created an open source Ruby gem for seamless API integration with Braze CRM, currently with 4,500 downloads.
- Mentored junior-mid engineers and contributed towards onboarding of the technical team.

BACKEND ENGINEER

Babylon Health / London / Jan 2017 – August 2019

Healthcare app for AI-powered diagnosis and video appointments.

- Split payments infrastructure from monolith into distributed Ruby microservices tied together with RabbitMQ - increasing PCI compliance.
- Migrated identity document data from UK Onfido servers to cloud-based AWS infrastructure in Canada, increasing data security and accessibility.
- Developed a new payment gateway adapter that supported secure transactions for an extra 2 million+ patients globally.
- Collaborated on GraphQL API's for patient-pharmacy geolocation, medical identifier processing and insurance redemption.

PROJECTS

HODLMOON - Ruby on Rails / ReactJS / GraphQL
Cryptocurrency portfolio tracker - <https://github.com/richo225/hodlreact>

BRAZIFY - Ruby / Shell / Github Actions
Open source wrapper for the Braze REST API - <https://rubygems.org/gems/brazify>

OCTOPUS - Rust / Warp / Docker
Trading CLI crate and algorithm library - <https://crates.io/crates/octopus-cli>