







# RICHARD BATES

## SENIOR BACKEND ENGINEER

### CONTACT

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### SKILLS

#### LANGUAGES

- Ruby
- Golang
- Typescript
- Rust

#### FRAMEWORKS/LIBRARIES

- Ruby on Rails
- Sidekiq
- ElasticSearch
- GraphQL
- Docker
- Apache Kafka

#### 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 5+ years experience scaling backend systems in the fintech and AI startup domains. Proven record in leading engineering teams, embedding practices and driving B2C product development.

### EXPERIENCE

#### SENIOR BACKEND ENGINEER

Cleo AI / London / Sep 2023 – Present

AI mobile assistant to help manage personal finances via LLM powered chat.

- Worked on the Chat Platform team, developing Rails API's for ChatGPT prompt annotation and automated intent evaluation.
- Collaborated with data scientists and engineers, to improve database performance and reduce latency of 1.5 million+ daily chat flows.

#### LEAD INSTRUCTOR

LeWagon / Singapore / Sep 2022 – May 2023

- Lectured and functioned as tech lead on two full-stack web development bootcamps (Ruby / JS), receiving a feedback NPS score of 92.

#### 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 API integration with Braze CRM, currently with 4,500 downloads.

#### BACKEND ENGINEER

Babylon Health / London / Jan 2017 – August 2019

Healthcare app for AI-powered diagnosis and video appointments.

- Developed a new payment gateway adapter that supported secure transactions for an extra 2 million+ patients globally.
- Broke the payments infrastructure out from the Ruby monolith into a distributed microservices architecture.
- Migrated identity document data from UK Onfido servers to cloud-based AWS infrastructure in Canada, increasing data security and accessibility.

### PROJECTS

**OCTGOPUS** - Golang / Typescript  
Trading engine and platform API - <https://github.com/richo225/octaopus>

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