

Pavel Pravosud

Staff Software Engineer & Tech Lead

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SUMMARY

Staff software engineer and tech lead specializing in payments and platform infrastructure. At Stripe, led the launch of ACH Debit, the company's second-largest payment method by volume, and serve on the API Review team that governs public API design. Previously built Heroku's cross-service event-delivery platform; maintainer of widely used Ruby open-source libraries including `builder` and `multi_json`.

EXPERIENCE

Senior Software Engineer, Engineering Lead

2019 – Present

Stripe

- Led a team of 6–10 engineers designing and launching Stripe's debit payment methods, including ACH Debit, which processed over \$4 billion in pay-in volume in 2024.
- Reviewed and approved 60+ public API changes on Stripe's API Review team, authoring 10+ myself, to keep the public API consistent and maintainable.
- Drove incident response on high-severity production issues, preventing financial loss, exposing fraud, and restoring service quickly.
- Mentored newly hired engineers through structured onboarding and hands-on coaching.
- Owned engineering for compliance audits, managing technical requirements, coordinating cross-functional teams, and driving remediation to deadline.

Principal Software Engineer

2015 – 2019

Heroku/Salesforce

- Architected and launched Eventbus, a real-time event-delivery system adopted across multiple services for inter-service communication.
- Built real-time monitoring and alerting for Eventbus, surfacing latency and throughput to keep it reliable at scale.
- Shipped Eventbus client libraries in several languages, driving adoption across the platform.

- Re-architected API rate limiting on the Generic Cell Rate Algorithm (GCRA), raising throughput ~140% and roughly halving p99 latency while eliminating manual token replenishment; open-sourced as [redis-gcra](https://github.com/rwz/redis-gcra) (<https://github.com/rwz/redis-gcra>).

Senior Software Engineer

2013 – 2015

Hashrocket

- Delivered Ruby on Rails, Sinatra, and PostgreSQL applications for a consultancy's diverse client base, with strong testing and code-quality discipline.
- Authored and maintained widely used open-source Ruby libraries, including [mock5](https://github.com/rwz/mock5) (<https://github.com/rwz/mock5>), [authem](https://github.com/paulelliott/authem) (<https://github.com/paulelliott/authem>), [adequate_exposure](https://github.com/rwz/adequate_exposure) (https://github.com/rwz/adequate_exposure), [natural_sort](https://github.com/rwz/natural_sort) (https://github.com/rwz/natural_sort), [normalize_url](https://github.com/rwz/normalize_url) (https://github.com/rwz/normalize_url), and [nestive](https://github.com/rwz/nestive) (<https://github.com/rwz/nestive>).

SKILLS

LANGUAGES

Ruby, Go, JavaScript, TypeScript

FRAMEWORKS & LIBRARIES

Ruby on Rails, Node.js, React, Tailwind CSS

DATA & INFRASTRUCTURE

PostgreSQL, MySQL, MongoDB, Redis, Kafka, AWS, Terraform

DOMAINS & PRACTICE

Distributed Systems, Event-Driven Architecture, API Design, GraphQL, Payments Infrastructure, Rate Limiting, Incident Response, Technical Leadership

OPEN SOURCE

jbuilder

Ships with Rails · 300M+ downloads

multi_json

Ruby JSON adapter · 1.1B+ downloads

EDUCATION

BSc in Communication Systems

Moscow Technical University of Communications and Informatics (MTUCI), Moscow

2003 – 2008