CONTACT

📞 +44 7427 910091

✉ davidslv.london@gmail.com

📍 London, UK

🔗 linkedin.com/in/davidslv

🖥 github.com/davidslv

🌐 davidslv.uk

SKILLS

Languages

→ Ruby, JavaScript

→ SQL, Python

→ 📚 Java, Rust (learning)

Backend

→ Rails, Sinatra, Express.js, Backbone.js

→ Three-layer architecture, Event-driven architecture

→ Microservices, REST APIs

Data

→ PostgreSQL, MySQL, Redis

→ Elasticsearch, MongoDB

→ Kafka, Cassandra, Snowflake

Infrastructure

→ AWS (EC2, S3, Lambda, RDS)

→ Docker, CI/CD

→ Datadog, New Relic, Sentry

Practices

→ TDD, Pair programming

→ Agile/Scrum

→ Technical mentoring, Knowledge sharing

PROJECTS

Building Your Own Roguelike

Published technical book on game development and event-driven architecture

Vanilla Roguelike

Open-source game demonstrating backend patterns in Ruby

DAVID SILVA

SENIOR BACKEND ENGINEER

Backend engineer with 10+ years building scalable systems serving millions of users. Delivered measurable impact: **reduced support tickets by 80%**, **scaled to 1M+ users**, and **delivered AI integrations**. Strong in distributed systems, event-driven architecture, and cross-functional leadership. Fluent in Ruby with production experience across multiple tech stacks.

EXPERIENCE

Indeed

Backend Senior Software Engineer / July 2022 – August 2025

Led transformative initiatives on platform serving 1M+ workers across US/UK markets. Ruby, Rails, PostgreSQL, Redis, Kafka, OpenAI.

→Led **6-month transformation** of penalty system coordinating cross-functional team—**reduced support tickets by 80%** and eliminated wrongful bans

→**Rescued critical incident** affecting 100K+ workers, leading rapid response through data migration crisis

→**Collaborated on AI chat interface** with OpenAI GPT and custom few-shot learning for natural language task completion

→**Mentored engineers** through pair programming, onboarding new hires, 1-on-1s, and team-wide knowledge-sharing sessions, fostering collaborative learning and accelerating capability development across all levels

Ministry of Justice

Senior Software Engineer / March 2020 – July 2022

Built government services for millions of UK citizens. Ruby, Rails, PostgreSQL, Gov.UK PaaS.

→Built a service to **apply to court about child arrangements**, validated through extensive user research, improving access to justice for families navigating legal processes

→Led development of the **service to check when to disclose cautions or convictions**, working with policymakers and legal experts to translate complex legal requirements into a custom algorithm. Bridged the technical-legal divide through scenario-based requirements gathering and stakeholder workshops

→**Transformed court payment processing** by building an online payment system that eliminated weeks-long delays, removed manual cheque handling, enabled instant fund allocation to court budgets, and improved application processing speed for millions of families

Creditspring

Senior Software Engineer / August 2018 – March 2020

Joined pre-launch fintech startup and architected scalable infrastructure, growing from 0 to 100K+ paying customers (500K+ registered users) while maintaining reliability throughout rapid growth.

→Architected **event-driven system** using Rails, PostgreSQL, Redis, and Sidekiq, ensuring complete financial auditability and scalability for transparent, affordable borrowing products

→**Led operations team** to identify and implement automation features, enhancing customer experience and reducing manual processes, enabling efficient scaling

→Established monitoring and reliability practices to maintain **99.9%+ uptime** during rapid customer growth

Government Digital Services

Software Engineer / January 2016 – August 2018

Core GOV.UK features for 60M+ monthly visitors. Ruby, Rails, Elasticsearch, React.

→Led development of GOV.UK **Step by Step pages**, simplifying complex government processes into clear user journeys that improved accessibility for millions of citizens

→Designed and implemented **taxonomy system** for GOV.UK content organisation, creating tools that enabled content creators to improve information retrieval and boost productivity across government departments

→Enhanced GOV.UK **search functionality using Elasticsearch**, optimising performance and accuracy for millions of daily searches. Modernised platform by phasing out legacy systems in favour of scalable, maintainable designs

→**Mentored engineers** through pair programming, 1-on-1s, and group knowledge-sharing sessions, fostering collaborative learning

Earlier experience (Unii, Sticky9, Housetrip, Think Orange) on **LinkedIn**