

Shoaib Malik

Full Stack Developer | Ruby on Rails + React | AI & RAG Integration

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PROFESSIONAL SUMMARY

Full Stack Developer with 5+ years of experience building production-grade Ruby on Rails and React applications, with a strong focus on AI integration, data privacy, and security-first development. Hands-on experience integrating LLM APIs (Anthropic Claude, OpenAI) and implementing RAG (Retrieval-Augmented Generation) pipelines into production applications — including an AI-powered personal data vault handling PII and consent records. Experienced in building full-stack platforms involving data capture workflows, consent management, user permissions, and audit logging. Familiar with GDPR, CCPA, and TCPA compliance in features that collect or process personal data and consent records, including AI data privacy governance — knowing what PII can and cannot be sent to LLM APIs. Strong across the entire stack: RESTful API design, PostgreSQL optimisation, Sidekiq background processing, responsive React frontends, third-party integrations (payments, email/SMS, CRMs), and cloud deployments on AWS. Comfortable taking end-to-end ownership of features in small product-driven teams, working directly with founders and leadership to ship clean, well-tested, maintainable code.

TECHNICAL SKILLS

Backend: Ruby on Rails, Sinatra, Ruby 3.x — RESTful APIs, background jobs, webhooks, integrations

Frontend: React, JavaScript (ES6+), TypeScript, Hotwire / Turbo / Stimulus, HTML5, CSS3

AI & LLM Integration: Anthropic Claude API, OpenAI API — RAG pipelines, intelligent automation, structured JSON outputs, tool/function calling, AI workflow automation, error handling

Databases: PostgreSQL, MySQL — schema design, query optimisation, indexing, migrations

Background Processing: Sidekiq, Redis — async job pipelines, retries, scheduled tasks, event-driven workflows

Security & Compliance: GDPR & CCPA compliance in consent and personal data features; TCPA for SMS/consent workflows; AI data privacy governance — scoping what PII can and cannot be sent to LLM APIs; authentication & access control; encryption and safe credential storage; sensitive data out of logs; dependency security management

Third-Party APIs: Stripe, Clover, Heartland (payments), Twilio / SendGrid (email/SMS), CRM integrations, OAuth, webhooks

Testing: RSpec, TDD, automated test coverage, CI/CD, GitHub Actions

DevOps & Cloud: Docker, AWS (EC2, S3, Lambda, RDS, SQS, CloudWatch), Heroku, GitHub Actions

AI Dev Tools: GitHub Copilot, Cursor, Claude Code — development velocity without sacrificing code quality

Practices: Git, GitHub Flow, code reviews, Agile / Scrum, clean and maintainable code, security-first mindset

PROFESSIONAL EXPERIENCE

Full Stack Engineer (Senior) | **Techwaresoft** – Dubai Silicon Oasis, UAE (Remote)

May 2025 – Present

- Led full stack performance optimisation across a large-scale Ruby on Rails application — reducing API response times by ~35% and eliminating 40% of redundant PostgreSQL queries through indexing, query refactoring, and schema improvements.
- Integrated LLM APIs (Anthropic Claude, OpenAI) to build AI-powered features including intelligent data extraction, automated workflow pipelines, and structured JSON output generation — with safe handling of sensitive data and graceful error recovery.
- Implemented authentication, access control, encrypted data storage, and audit logging across the stack — with strict practices around safe credential handling, keeping sensitive data out of logs, and managing dependency security updates proactively.
- Built and maintained Sidekiq background job pipelines and Redis caching layers, improving throughput and reliability for high-volume asynchronous processing.
- Developed React frontend features alongside Rails backend work, taking full ownership from design through deployment and maintenance.
- Expanded RSpec test coverage for critical modules, strengthening CI reliability and reducing production regressions.

- Used GitHub Copilot and Cursor daily to accelerate prototyping and complex refactoring — shipping higher quality code faster without sacrificing maintainability.

Full Stack Engineer – Ruby on Rails | **CareCloud** – Somerset, New Jersey, USA (Remote)

Feb 2023 – Feb 2025

- Built production RESTful APIs and backend integrations for a healthcare SaaS platform handling sensitive personal data for enterprise clients — maintaining strict data privacy compliance, secure PII handling, safe credential storage, and keeping sensitive information out of logs throughout the product lifecycle.
- Architected an API Rate Limiting and Analytics system — a usage-based billing and monitoring solution using AWS Lambda, DynamoDB, and SQS — owning the feature end-to-end from requirements through production deployment.
- Integrated payment gateways including Stripe, Clover, and Heartland into the Rails backend with secure financial data handling and reduced transaction failure rates.
- Implemented authentication, role-based authorization, and audit logging across platform modules, ensuring secure access control and traceable actions on sensitive records.
- Co-led Ruby upgrade from 2.5.9 to 3.0.0, closing security vulnerabilities and improving performance across the full application.
- Worked closely with support and product teams to reproduce, debug, and ship production fixes fast, maintaining high SLA compliance.

Full Stack Developer | **Forrentech** – Lahore, Pakistan

Aug 2020 – Feb 2023

- Built full stack web applications using Ruby on Rails and React for multiple SaaS products — owning features end-to-end from database schema design through API development, React frontend, and cloud deployment on AWS.
- Integrated third-party APIs, webhooks, email/SMS delivery platforms (SendGrid, Twilio), and payment gateways using clean, reusable, maintainable code patterns and Git flow workflows.
- Designed PostgreSQL schemas and optimised slow queries, achieving significant latency reductions across core product flows.
- Containerised applications with Docker and maintained CI/CD pipelines, improving consistency and deployment reliability across environments.
- Applied security-first practices throughout: safe credential storage and handling, sensitive data never written to logs, encrypted user data, proactive dependency updates and security warning remediation.
- Mentored junior engineers through code reviews, technical onboarding, and engineering best practices, raising team standards for security and test coverage.

Junior Full Stack Developer | **Forrentech** – Lahore, Pakistan

Aug 2019 – Jul 2020

- Built backend services and RESTful APIs using Ruby on Rails, focused on clean, maintainable code, secure data handling, and scalable architecture from the ground up.
- Designed PostgreSQL schemas for new product features and wrote RSpec automated tests, partnering with QA on debugging and regression coverage.

SELECTED PROJECTS

TagData | tagdata.co – Ruby on Rails, React, PostgreSQL, LLM APIs, RAG

- Built an AI-powered Personal Identifiable Information (PII) vault platform — allowing users to securely store, manage, and share personal data records across 8 dimensions (Medical, Financial, Identity, Travel, and more) with military-grade encryption and full audit trails.
- Integrated RAG (Retrieval-Augmented Generation) pipeline using LLM APIs (Anthropic Claude / OpenAI) — enabling intelligent, context-aware querying of personal data records, AI-powered life suggestions, and document summarisation directly from the user's vault.
- Built the SmartShare consent system — a granular data sharing and permissions framework allowing users to share specific fields or documents with third parties under defined contractual terms, with expiry controls, access tracking, and consent record logging — directly analogous to a consent management platform.
- Implemented end-to-end security: military-grade encryption at rest, role-based access control, secure PII handling, GDPR-aligned privacy controls, and structured audit logging for all data access events.
- Structured LLM outputs as reliable JSON for downstream processing, handled AI errors gracefully, and enforced strict rules on what PII data can and cannot be sent to external AI services.

WOSH | wosh.be – Ruby on Rails, React, PostgreSQL, Stripe, Sidekiq

- Built a full stack on-demand laundry and dry-cleaning platform serving 3,000+ corporate and household clients across Brussels, Ghent, Leuven, and Brabant — with scheduling, order capture, assignment, and delivery tracking workflows.
- Developed a B2B client management system for offices, co-working spaces, and corporate clients — including order lifecycle management (capture, assignment, scheduling, delivery confirmation) and automated Sidekiq-powered background jobs for status updates and notifications.
- Integrated Stripe for payment processing and SendGrid for transactional email delivery; implemented secure user authentication, role-based access, and GDPR-compliant data handling for Belgian customers.

RéChic & Shop | rechicandshop.com – Ruby on Rails, PostgreSQL, Multi-currency eCommerce

- Built a full-featured pre-loved luxury fashion marketplace for the Qatar market — supporting multi-currency pricing (QAR, EUR, GBP, USD, CHF), international shipping via DHL Express, and a consignment resell pipeline with 90-day listing cycles and automated commission calculations.
- Implemented a product authentication and verification workflow, order lifecycle management (capture, confirmation, fulfilment), customer accounts, wishlists, and a returns system — with GDPR and Qatar data protection-aligned privacy controls.
- Integrated payment gateways, built a seller dashboard for consignment tracking and payouts, and developed an admin backoffice for order management and reporting.

Danube Online | danube.sa – Ruby on Rails, PostgreSQL, Redis, AWS

- Contributed to the backend engineering of a large-scale Saudi grocery eCommerce platform serving 10,000+ SKUs across multiple regions (Western, Central, Eastern, Southern Saudi Arabia) with multi-supermarket fulfilment, loyalty programmes, and bilingual (Arabic/English) support.
- Built and optimised backend APIs, PostgreSQL query performance, and Redis-backed caching for high-traffic product browsing, cart management, and order processing at enterprise scale.

EDUCATION

Bachelor of Science in Computer Science | FAST-NUCES, Pakistan

Aug 2016 – Dec 2021