

# Zia Ur Rehman

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## Professional Summary

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Software Engineer with 4+ years of experience building secure, high-performance web applications across real estate, healthcare, and e-commerce domains. Skilled in both modern and legacy systems with a strong focus on performance optimization, database tuning, and API-driven development. Improved system speed by 33% and team efficiency by 70% through query tuning and workflow automation. Committed to clean code, scalable architecture, and remote collaboration.

## Work Experience

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### Full Stack Software Engineer

Texas – Remote

Intellirent - Real estate and rental marketing and applicant screening

Jan 2023 – Dec 2024

- Refactored legacy **Ruby on Rails** architecture using advanced metaprogramming and DRY principles, delivering a **33% performance gain** and lowering server costs.
- Engineered **containerized microservices** with AWS Lambda and Docker, cutting infrastructure costs by **27%** while enhancing scalability and deployment speed.
- Integrated **third-party REST APIs (Stripe, Experian)** to fully automate applicant screening, reducing manual workload by **30%**.
- Restructured relational schemas with **ActiveRecord**, resolving memory issues (**23% improvement**) while ensuring **ACID compliance**.
- Enhanced frontend performance by **15%** via asset bundling and font caching.
- Reduced memory usage by **77%** by embedding PDFs, minimizing external dependencies.
- Accelerated debugging by 50% using structured logging and real-time monitoring tools such as Papertrail and Airbrake.
- Replaced default Rails scaffolding with Turbo Streams and Turbo Frames to deliver reactive, real-time UX without writing custom JavaScript.
- Wrote unit tests using **RSpec** for critical modules, improving test coverage and reducing production bugs in legacy refactored components.
- Delivered features in cross-functional Agile teams, collaborating across design, product, and QA to meet sprint goals.

### Software Engineer

Singapore – Remote

Biomark – Healthcare platform for secure patient-doctor-lab connectivity

June 2022 – Jan 2023

- Reduced codebase size by **12%** using hash-based metaprogramming in Ruby on Rails, achieving **O(1)** time complexity in key workflows.
- Developed HIPAA-compliant pipelines using **HL7 APIs**, enabling secure healthcare data exchange and reducing manual processing by **47%**.
- Automated onboarding workflows and designed modular healthcare microservices, boosting team productivity by **70%** and developer efficiency by **30%**.
- Contributed to secure data exchange architecture using HL7 protocols within Agile sprints, maintaining HIPAA compliance and delivery velocity.

### Software Engineer

Wilmington – Remote

Saas LTV Growth – E-commerce app for revenue optimization

June 2021 – June 2022

- Migrated REST endpoints to **Shopify GraphQL API** and implemented CI/CD pipelines via GitHub Actions, reducing server load by **36%** and accelerating release cycles.
- Optimized background job queues with **Redis batch processing**, eliminating **N+1 query issues** and improving resource use by **43%**.
- Implemented product customization features (engraving, swatches, image uploads), increasing customer engagement by **37%** and boosting merchant revenue.
- Reduced **LCP (Largest Contentful Paint)** by **72%** via Redis caching and backend query optimization in MVC architecture.
- Implemented Git-based version control workflows for team collaboration, including pull requests, code reviews, and continuous integration.

## Projects

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### Intellirent (Real-Estate | Rental-Marketing)

[myintellirent.com](https://myintellirent.com)

- A platform that allows rental marketing agents to display property listings and streamlines applicant submissions with automated screening features.

### Biomark (HealthCare)

[biomarking.com](https://biomarking.com)

- A platform that connects patients, doctors, and labs to facilitate secure, real-time updates and data sharing between parties.

### Saas LTV Growth (E-Commerce)

[product-customizer](https://product-customizer.com)

- An app enabling merchants to offer customizable product options (engraving, color swatches, image uploads) with enhanced visuals and premium charges, increasing revenue and personalization.

## Skills

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**Languages:** Ruby, Python, JavaScript, SQL, HTML/CSS

**Frameworks & Libraries:** Ruby on Rails, React, Django

**Databases:** PostgreSQL, MySQL, Redis, Firebase (NoSQL)

**APIs:** RESTful, GraphQL, Stripe, Shopify, HL7

**Cloud/DevOps:** AWS (Lambda, S3), Docker, CI/CD, Jenkins, Heroku

**Tools:** Git/GitHub, Postman, RSpec (testing), Jira, Agile/Scrum

## Education

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**Namal College - An Associate College of University of Bradford, UK**

Bachelor of Science - BS, Computer Science

**Pakistan**

Graduated