

MUHAMMAD SAAD AZAM

Email ♦ GitHub ♦ LinkedIn ♦ Website

Senior Software Engineer specializing in AI integrations with LLMs and deep learning systems (GPT, Claude, BERT). Full-stack developer with Ruby on Rails, React, and Vue experience, focusing on system architecture and performance optimization while leading multiple projects that redesigned architectures from scratch to achieve 40% faster load times and improved scalability. Experienced in system refactoring and mentoring teams to enhance code quality and development velocity..

WORK EXPERIENCE

Bankom.co

Senior Software Engineer

January 2025 – Present

- Took over a stalled codebase and led it to production, handling all deployments independently.
- Rebuilt key pages with lazy loading and asynchronous jobs, **reducing page load time by ~40%** .
- Refactored major modules, cutting code duplication and enhancing maintainability.
- Set up **Rollbar** for real-time monitoring and resolved post-deployment errors proactively.
- Added **linters** and **improved test coverage** to increase developer velocity and code safety.
- Homogenized key implementations, significantly reducing redundant logic throughout the codebase.
- Collaborated with cross-functional teams to prioritize bug fixes and optimize the product roadmap.

RStack Labs

Senior Software Engineer

September 2024 – December 2024

- Fixed critical production bugs across multiple projects, unblocking releases.
- Delivered weekly scrum deliverables including automation scripts and feature integrations.
- Improved app stability by identifying and **resolving legacy performance** issues.

Acklib

Full-Stack Developer

November 2022 – September 2024

- Developed and launched company's marketing site with **Sendinblue** integration and CAPTCHA, strengthening lead capture.
- Built multiple features across **Ruby on Rails**, **Vue**, and **React** codebases, improving product delivery speed.
- Mentored junior engineers and conducted interviews for hiring, ensuring team quality.
- Optimized business logic for industry verticals like restaurants and logistics, broadening product scope.
- Integrated **GPT** and **Twilio**-based services for AI-powered communication tools in client platforms.
- Led modernization efforts on multiple legacy apps, migrating outdated stacks to Rails + Hotwire.

PROJECTS

Oppy.pro

Acklib

Software Engineer

February 2023 – September 2023

- Took ownership of a microservices-based AI platform using **React**, **Rails (Grape)**, and **TypeScript**.
- Diagnosed critical bugs, introduced test coverage and linting, resulting in improved code stability.
- Integrated **GPT-4** to power scraping, image analysis, and summaries; automated **Twilio** workflows for seamless agent interactions.
- Contributed to successful public launch.

Winthrop Intelligence (WinAD)

Acklib

Software Engineer

September 2023 – February 2024

- Migrated frontend from jQuery/Coffeescript to **Hotwire**, removing legacy tech and improving UI responsiveness.
- Rebuilt sports statistics service with **TailwindCSS** and Hotwire; enhanced user insights.
- Cut OpenAI usage cost by switching to Postgres FTS and fuzzy matching for text classification.

Commercial Truck Quotes (CTQ)

Acklib

Software Engineer

February 2024 – September 2024

- Resolved major Twilio call disruptions, restoring communication between clients and agents.
- Upgraded from Node.js 12 to 18, which reduced technical debt and improved system performance.
- Extended application scope to non-trucking industries, expanding market reach.

Turf Remote
Software Engineer September 2023 – December 2024

- Built the project from scratch with Ruby on Rails; integrated **Stripe** for provider payments.
- Developed data scrapers and onboarding pipelines for program listings, enabling scalability.

LoopOS RStack Labs
Software Engineer September 2024 – December 2024

- Diagnosed and fixed production issues; improved maintenance scripts and operational health.
- Assisted in feature integrations during weekly scrums, accelerating delivery cycles.

BizAccelerator Bankom.co
Software Engineer September 2024 – Present

- Revamped landing page and core modules with enhanced **UI/UX** and test coverage.
- Optimized application performance with **lazy loading** and **asynchronous jobs**.
- Took the project to production, reducing time-to-market and improving user satisfaction.

Technical Mentoring and Interviews

Mentor & Interviewer

- Conducted interviews to assess **OOP**, **DSA**, and software engineering fundamentals in new grads.
- Mentored juniors in Ruby on Rails and Hotwire stack, improving onboarding effectiveness.

EDUCATION

Lahore University of Management Sciences Lahore, Punjab
Bachelor of Science in Computer Science (Honors) September 2018 - July 2022

Government College University Lahore, Punjab
Faculty of Science, Pre-Engineering September 2016 - August 2018

RELEVANT COURSEWORK

Discrete Mathematics	Human Computer Interaction
Fundamentals of Computer Systems	Computer Graphics
Artificial Intelligence	Network-Centric Computing
Operating Systems	Databases
Machine Learning	Principles and Techniques of Data Science
Deep Learning	Computer Networks: Principles and Practices
Software Engineering	Computer Vision Fundamentals