

MUHAMMAD ABUBAKAR

Senior Full-Stack Software Engineer

Remote | Open to relocation

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I'm a full-stack developer specializing in web applications, with expertise in backend systems, microservices, and frontend technologies, including React and Next.js. Skilled at building scalable, high-performance solutions and delivering quality results in collaborative, **remote-first** environments.

TECHNICAL SKILLS

Backend: Ruby on Rails, NodeJS, NestJS, Microservices, GraphQL **Frontend:** ReactJS, NextJS, Gatsby
Databases: PostgreSQL, MySQL, MongoDB, Redis. **Background Jobs:** Sidekiq, Resque
Project Management: Agile, Jira, Slack, GSuite **Infrastructure:** AWS, Heroku, Digital Ocean
Monitoring & Tools: Grafana, Prometheus, Git, GitHub, Docker, Jenkins, n8n, Postman
AI & Machine Learning: LLMs, Generative AI, AI Agents, Prompt Engineering, Model Context Protocol (MCP)

EDUCATION

Government College University Lahore (GCU) **Lahore, Pakistan**
Bachelor of Science in Computer Sciences **2015-2019**

Majors: Object Oriented Programming, Data Structures, Algorithms, Databases, Data warehousing, Compiler Construction, Theory of Automata, Software Engineering, Software Quality Assurance, Natural Language Processing

WORK EXPERIENCE

International Showtimes – Senior Associate Backend Developer (Remote, Germany, Berlin)

November 2022 – Present

- Optimized high-traffic Ruby on Rails APIs serving millions of daily requests by introducing Redis caching and database indexing, reducing significant response times by ~35%.
- Built scalable microservices using NestJS and TypeScript, powering the core movie-matching engine.
- Improved the millions of data importing process with an asynchronous approach, significantly speeding it up.
- Improved system reliability with structured logging, monitoring, and alerting using Grafana and Prometheus.
- Worked with Kubernetes and Docker to deploy, scale, and manage distributed services.
- Built and maintained a NextJS-based internal dashboard for data management and visualization.
- Collaborated closely with product & data teams to deliver backend features aligned with business requirements.

Virtual Force Inc – Software Engineer (Hybrid, Pakistan)

January 2022 – December 2022

- Developed and maintained Ruby on Rails applications with React-based frontends.
- Implemented background processing using Sidekiq to handle asynchronous workloads.
- Integrated third-party services and optimized PostgreSQL and MongoDB queries.
- Collaborated with cross-functional teams to deliver client-facing features.

Intagleo Systems – Software Engineer (Onsite, Pakistan)

March 2021 – January 2022

- Enhanced and maintained **SaaS** products using Ruby on Rails and ReactJS.
- Designed RESTful APIs and improved application performance through query optimization.
- Deployed and maintained applications on Heroku.

Cyber Nest Pvt Ltd – Software Engineer (Onsite, Pakistan)

November 2020 – March 2021

- Worked as a full-stack developer on Ruby on Rails and ReactJS applications.
- Developed secure and scalable backend services and integrated Electron-based desktop features.

LOGICON – Associate Software Engineer (Onsite, Pakistan)

August 2019 – November 2020

- Started professional career as a full-stack developer working with Ruby on Rails and ReactJS.
- Collaborated with senior engineers on feature development and bug fixes.

PROJECTS

International Showtimes API – Entertainment data from another planet

High-scale entertainment data platform providing global cinema showtimes and VoD metadata.

Tech: Ruby On Rails, MySQL, MongoDB, Redis, Kubernetes, Docker, NestJS

Pynwheel – Transforming the property tours through innovative technology solutions

Pynwheel transforms multifamily property tours with interactive tools and a seamless self-guided app for the ultimate touring experience.

Tech: Ruby On Rails, PostgreSQL, JavaScript, React, Heroku

Fintech Connector - Connecting people, opportunities, and capital to collaborate on

FinTech Connector brings professionals and innovators together to shape the future of financial services.

Tech: Ruby On Rails, PostgreSQL, JavaScript

Amplifyd – Connects Brands & Influencers Smartly

An AI-powered platform that simplifies influencer discovery & campaign execution for a seamless marketing experience.

Tech: Ruby On Rails, PostgreSQL, ReactJS, Gatsby

SkilledScore – A smart way to find the right skills and jobs

Tech: JavaScript, ReactJS, CSS, Material UI

ArtWallst –Turns your artwork into prints. Exhibit offline. Sell online

Tech: Ruby On Rails, Haml, Stimulus, CoffeeScript

INTERESTS

Data Science Enthusiast | AWS | Generative AI | DWH/ETL BI | Explore and Learn New Technologies