

# MUHAMMAD ABUBAKAR

Senior Full-Stack Software Engineer

Remote | Open to relocation

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• [mabubakarAR \(Abubakar\)](https://www.linkedin.com/in/muhamadabubakar/) • [GitHub](https://github.com/mabubakarAR) • <https://www.linkedin.com/in/muhamadabubakar/> • Pakistan

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

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**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

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**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

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**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.

**Intaglio 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

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### [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

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