

# Syed Muhammad Irtaza

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Portfolio: Irtaza

## OBJECTIVE

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Software Engineer with hands-on experience in full-stack development using the **MERN stack**, **NestJS**, and **Next.js**. Proficient in both **SQL (MySQL, PostgreSQL)** and **NoSQL (MongoDB)** databases. Seeking opportunities to solve complex engineering problems, contribute to scalable products, and grow in a collaborative, fast-paced environment.

## WORK EXPERIENCE

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### Full-Stack Developer

May 2024 – Present

*Ideamappers*

*Remote, PK*

- Implemented dynamic filters on a **2M+ user PostgreSQL dataset**, calculating influencer fee averages based on date range and content type using **B-Tree indexes**, enhancing query performance.
- Developed “**Quick Payment**” flow enabling direct payments to creators, bypassing traditional application steps and improving conversion rates.
- Optimized a slow-performing API by refactoring Sequelize queries to raw SQL, reducing DB response time by **40%**.
- Led white-labelling effort for client portal, enabling dynamic theming and brand-specific customization.

### MERN Stack Developer

Sept 2022 – Mar 2024

*Codistan Ventures*

*Islamabad, PK*

- Developed and deployed a website using **Shopify Headless CMS**, integrating a custom front-end with Shopify APIs.
- Engineered a peer-to-peer property platform using **MongoDB ACID transactions**, supporting thousands of safe concurrent trades.
- Utilized **GitLab CI/CD** pipelines to reduce deployment time by **20%** and improve release cycles.
- Implemented **SWC bundler** to replace Webpack, significantly boosting build performance.

## PROJECTS

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### Habily - Nest.js, Next.js, Tailwind, PostgreSQL, ScrapingBee, Flowise

- Revamped data scraping logic using **ScrapingBee**, adding fallbacks to ensure availability and reliability of rental listings.
- Created advanced filters for property search (price, size, type, etc.), enabling targeted user experiences.
- Optimized query performance by redesigning price maps and reducing redundant scraping operations.
- Built **Flowise AI agents** that generate contextual reports from property URLs.

### Lua - Next.js, Tailwind, PostgreSQL, Monorepo, Node.js

- Cut S3 storage costs by **50%** by redesigning the media architecture: segmented media into prod/staging/dev buckets, enabled versioning and lifecycle rules for automated cleanup, activated access logging to analyze usage patterns, and adopted Intelligent-Tiering for infrequently accessed assets.
- Refactored monolithic APIs into modular endpoints, replacing Sequelize with raw queries to reduce query time from **6 seconds** to **1.2 seconds**.
- Revamped portal UI and filters for better UX and performance; added debounce + cancellation for rapid API calls.
- Introduced a dynamic **Quick Payment** feature allowing direct payments to creators reducing time to pay creators by **10%**.

**PartOwn** - Next.js, GraphQL, Node.js, Tailwind, MongoDB, Mailchimp, Docker

- Implemented MongoDB transactions for high-concurrency trading features, reducing failures by **5%**.
- Improved navigation latency by **25%** using preloading and prefetching techniques in Next.js.
- Reduced page load time by **30%** using lazy loading, dynamic imports, and code splitting.
- Audited and removed heavy libraries, reducing bundle size by **15%**.

**BizB** - Next.js, MongoDB, GraphQL, AWS S3, GCP, Tailwind, Mailchimp

- Migrated project from Webpack to **SWC** and upgraded to **Next.js 13**, improving build speed by **120%**.
- Used MongoDB transactions to fix cart syncing issues, reducing abandoned carts by **15%**.
- Implemented **Next.js Image Optimization API** to reduce load times by **50%**.
- Refactored codebase to TypeScript, improving maintainability and early bug detection.

**GemMint** - Node.js, Express, MySQL, AWS S3, Stripe, PayPal, Venmo

- Integrated **Venmo**, **PayPal**, and eventually **Stripe** for seamless in-app payment processing.
- Built dynamic membership plans with full CRUD support to enable flexible loyalty rewards management.
- Migrated all legacy media files to **AWS S3** and developed scripts for batch uploading and access control.
- Collaborated with frontend team to troubleshoot performance issues and improve API response times.

**Gifted** - Node.js, MySQL, Stripe, Tremendous API

- Integrated the **Tremendous API** to enable distribution of gift cards from various vendors.
- Developed social networking features including **friend suggestions**, requests, and mutual contacts.
- Implemented secure **Stripe payment processing** for gift transactions.
- Optimized backend with **pagination and query tuning**; maintained full technical documentation.

## ACADEMIC PROJECTS

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**Fake News Detector** - Python, LSTM, Random Forest, Kaggle, PolitiFact, Twitter API

- Combined datasets from **Kaggle** and **PolitiFact** and trained classifiers (LSTM, Random Forest) to evaluate the truthfulness of news text.
- Developed a bot detection module using Twitter metadata to evaluate the **credibility of the source account**.

**Hospital Management System** - Java, MySQL, JavaMail API

- Built a desktop application using **Java and MySQL** to manage patients, staff, medicines, and medical history.
- Automated expiry alerts using scheduled email jobs, enhancing **inventory management efficiency**.

## EDUCATION

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**COMSATS University Islamabad, Wah Campus**

*B.S in Software Engineering*

**2021**

*Wah Cantt, PK*

## TECHNICAL SKILLS

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**Programming Languages:** JavaScript, Python, C++, Java

**Technologies:** React.js, Next.js, Node.js, NestJS, Mailchimp, Material UI, Bootstrap, Tailwind, MySQL, PostgreSQL, MongoDB

**Infrastructure:** Docker, AWS (EC2, Amplify, Elastic Beanstalk, Code Pipeline, S3 Bucket ), Git, GitLab CI/CD, WSL2