

Syed Muhammad Irtaza

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[GitHub](#) | [LinkedIn](#) | [Portfolio](#)

Work Authorization: Canadian study permit allowing 40 hrs/week in summer and 24 hrs/week in academic terms

WORK EXPERIENCE

Full Stack Developer

Ideamappers / Luagroup (formerly Numu)

May 2024 to Aug 2025

Remote (Based in Madrid, Spain)

- Cut hot endpoint latency from roughly six seconds to near one second by isolating CPU-intensive endpoints, removing unnecessary transaction wrappers, and replacing Sequelize calls with tuned raw SQL.
- Designed a dynamic, lazy-loaded filtering system over 6M+ creator records using conditional joins and attribute inclusion, keeping search responsive at production scale.
- Reduced S3 storage costs by about half through versioning, lifecycle rules, and Intelligent Tiering, and eliminated orphaned media files with a middleware-based synchronization workflow.
- Led a UI architecture refactor enabling white-labeling for enterprise clients by restructuring global theming, configuration layers, and shared components.
- Built a property intelligence platform from scratch with NestJS, structuring web-scraped data via ScrapingBee and integrating an LLM-powered chatbot with automated report generation.
- Introduced Jest unit tests across core API services, establishing coverage for payment and filtering modules.

Full Stack Developer

Codistan Ventures

Sept 2022 to Mar 2024

Islamabad, PK

- Integrated Stripe, PayPal, and Venmo payment gateways and implemented secure merchant onboarding and payout workflows using Stripe Connect.
- Developed backend features for a headless e-commerce platform using GraphQL and MongoDB, adding transactions to prevent partial writes in order booking.
- Upgraded a production storefront from Next.js 9 to Next.js 13, moving Webpack to SWC for faster builds and cutting bundle size through lazy imports and dependency pruning.
- Built wallet, funds reconciliation, and transaction features for a fractional property-trading platform.
- Migrated legacy media to S3 with batch upload and access control scripts, partnering with frontend engineers to resolve API bottlenecks.
- Resolved React Native UI issues and integrated backend APIs to improve mobile application reliability and data consistency.

EDUCATION

Concordia University

MEng Software Engineering

Sept 2025 to May 2027 (Expected)

Montreal, QC, Canada

- Research: *Agentic Debt: Evaluating Technical Debt in Agentic Software Engineering*; built a Python and LLM-based refactoring pipeline and analyzed technical debt across 28 multi-agent generated projects (Engineering for AI Based Systems).
- Coursework: Programming and Problem Solving, Advanced Programming Practices, Software Comprehension and Maintenance, Software Design and Methodologies

COMSATS University Islamabad

BS Software Engineering

2018 to 2022

Wah Cantt, PK

TECHNICAL SKILLS

Languages and Frontend: JavaScript, TypeScript, React, Next.js, React Native, React Query, Tailwind CSS, Material UI

Backend and Databases: Node.js, NestJS, Express, REST APIs, GraphQL, PostgreSQL, MySQL, MongoDB

Cloud and DevOps: AWS (EC2, S3, RDS, Lambda, Amplify, Elastic Beanstalk), GCP, Docker, CI/CD (GitLab, GitHub Actions), Git

Testing and AI: Jest, LLM integration, Flowise, n8n