

# Muhammad Moeen

+92 336-4220030 | moeen.v8@gmail.com | linkedin.com/in/moeenn | github.com/moeenn

## About Me

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Experienced software engineer with 8+ years in the IT industry and 5 years of hands-on development expertise. I build high-performance, reliable, business-critical web applications using JavaScript, Python, and Golang.

## Experience

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**Back-end Developer**, The Moonshot Factory – Remote Sep 2024 – Present

- To enhance query performance, migrated several Golang microservices from PostgreSQL to Neo4j.
- Built an authorization framework for GraphQL APIs. This framework lets different microservices define user access controls that fit their specific requirements.
- Implemented AWS and GCP service integrations to crawl asset inventory data, with support for on-demand and event-driven crawling.
- Conducted major refactoring of legacy services to improve code quality and streamline future feature integration.

**Full-stack Developer**, Stack360 – Lahore, Punjab Nov 2023 – Sep 2024

- Improved back-end resilience by implementing RPC communication mechanism between microservices using RabbitMQ.
- Enhanced API code maintainability by migration from Javascript to TypeScript, picking the maximum strict rule-set.
- Enhanced company's B2B QR code generation product by developing a lightweight front-end, enabling bulk creation of thousands of QR codes per day.
- Simplified graphic designers workflow by developing a Chrome extension for capturing colors and storing them directly in Google Sheets, removing the need for manual data entry in the design process.

**Software Engineer**, OSO Software Outsourcing – Lahore, Punjab Aug 2020 – Oct 2023

- Solo implemented the back-end for a client application with 150+ API end-points.
- Wrote 400+ unit tests for a business critical client application to ensure reliable operation in production.
- Implemented REST APIs for a custom LMS which helped STEM institutes expand their eLearning capabilities.
- Integrated AI technologies (OpenAI, D-ID, Whisper) into an HR platform to automate the recruitment process.
- Implemented a live-tracking system helping an international business track their delivery vehicles in real-time.
- Implemented a PDF Platform enabling Legal firms to create, sign and share legal documents digitally.
- Creating a web application for listing, searching and reviewing apartments and rental properties in Texas, USA.
- Held sessions with clients to outline scope of work, system requirements and workflow documents for 20+ projects, leading to effective project planning and costing-estimation.

**IT Audit Associate**, KPMG Taseer Hadi & Co. Chartered Accountants – Lahore, Punjab July 2016 – Mar 2019

- Conducted analysis of business IT processes to identify inefficiencies, bottlenecks, and areas for improvement.
- Developed protocols, controls, and best practices to safeguard against potential breaches and ensure system integrity.
- Advised multiple multinational clients to refine, customize, and improve their ERP system implementations.
- Guided businesses through the implementation of critical IT operations policies, including disaster recovery.

## Projects

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**WordPress XML-RPC Brute-force Exploit** [github.com/moeenn/wp-xmlrpc-bruteforce](https://github.com/moeenn/wp-xmlrpc-bruteforce)

- Demonstration of WordPress vulnerability which allows brute-force dictionary attacks for extracting user credentials.
- The exploit uses XML-RPC payloads as the primary attack vector.

**Android Cleaner** [github.com/moeenn/android-cleaner](https://github.com/moeenn/android-cleaner)

- Demonstration of WordPress vulnerability which allows brute-force dictionary attacks for extracting user credentials.
- The exploit uses XML-RPC payloads as the primary attack vector.

## Education

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**Pak AIMS** – Bachelors of Computer Science (contd.) 2020

**Professional Academy of Commerce** – Chartered Accountancy (Inter) 2016