Muhammad Moeen

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About Me

I am a software engineer with 5+ years of experience. I am fluent in Golang, Javascript, Python and English. I specialize in developing web applications for businesses where performance and reliability are critical.

Experience

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.

MERN 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.

Projects

WordPress XML-RPC Brute-force Exploit   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.

VLD   github.com/moeenn/vld
- A data validation framework written in Go.
- Validation rules are fully extensible, users can define their own custom validators.
- Includes 30+ in-built validation functions.

Image Process   github.com/moeenn/image-process
- CLI tool to allow resizing, compressing and converting images.
- Added option to compile the python script to a stand-alone executable binary.
- Includes type-checking, formatting, linting related configurations.

Education

Pak AIMS – Bachelors of Computer Science (contd.)   2020
Professional Academy of Commerce – Chartered Accountancy (Inter)   2016
National Grammar School – A-Levels   2013