

# Raza Ali Poonja

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## Objective

I'm a tech enthusiast with over 8 years of experience. Passionate about crafting robust and scalable applications, I thrive in dynamic environments and excel at adapting to new challenges and technologies. Willing to secure a responsible career opportunity and a leading role to fully utilize my experience and skills, while making a significant contribution to the success of the company.

## Experience

**Jan 2024 – PRESENT**

### **ICS Arabia– Solutions Architect**

1. Developed a scalable web application with a robust Django/MySQL backend, deployed on AWS EC2 with RDS, and integrated Amazon S3 for storage. Implemented RabbitMQ with exchanges for **distributed processing**, Celery beat for **dynamic user scheduling**, and Quadrant as a vector database.
2. Seamlessly integrated **large language models** (LLMs) via LangChain and Ollama, implemented **end-to-end encryption (E2EE)** with client-side key management, and utilized OAuth for Microsoft Graph API integration to extract user emails. Enabled real-time functionalities through **server-sent events (SSE)** for streaming chat and real-time polling for dashboard analytics.
3. **Containerized** the entire frontend and backend with **GPU support** using Docker and docker-compose for both production and development, consolidating the Django backend, embedding consumer with GPU, Quadrant, Ollama, RabbitMQ, and Celery beat into a single docker-compose setup—streamlining deployment and development workflows.
4. Automated CI/CD pipelines with GitHub Actions, improving deployment efficiency, and created real-time **financial dashboards** using Retool, providing actionable insights and supporting data-driven decision-making.
5. Integrated **Amazon EFS** with EC2 instances and the consumer service, functioning as a NAS on the cloud to enable seamless data sharing and centralized storage.

## Mar 2023 – PRESENT

### TGD Limited – Senior Development Consultant

1. **Broadband Market Website Redesign:** Spearheaded the end-to-end redevelopment of the website using Laravel, Livewire, and MySQL for backend operations; employed Tailwind and Alpine.js for the frontend. Enhanced the admin panel with **FilamentPHP**, integrated a custom **WordPress** theme for the blog, and streamlined deployment and management through **Docker** and **Jenkins** CI/CD pipelines.
2. **Totalcare Support Website Enhancement:** Overhauled and enhanced the Totalcare Support website by utilizing Laravel and **Livewire** for backend services, MySQL for database management, and Tailwind with **Alpine.js** for frontend development. Improved administrative functions with **FilamentPHP** for the admin panel.
3. **ERP Upgrade and Optimization:** Successfully redeveloped a legacy ERP system from Perl to a **custom PHP framework (Forge)** utilizing Eloquent ORM. Implemented key modules including Recurring Charges, Reporting, Transactions, Validations, Over Usage, Card Fees, and Unallocated Payments. All modules were developed with a focus on optimization, incorporating memory cleanup, Singleton pattern, dynamic pagination, and adherence to **SOLID principles**, resulting in a **7x performance** improvement. Enhanced system efficiency and performance significantly, leading to improved operational workflows and user experience.

## Feb 2022 – Feb 2023

### Al Nafi – DevOps Team Lead

1. Developed Al Nafi's new **main website** using **3-Tier Architecture**. Deployed on **AWS** with load balancing for autoscaling. **Tailwind** and **Nuxt.js** on the front end, with **Django** and **MySQL** powering the backend. Payment gateways such as Stripe, **Easypaisa**, **UBL IPG** and **Convera** are integrated. Secured the website and scanned it for security holes using **Burp Suite**. **Sentry** is being used to get real-time insights to catch errors and monitor performance, **Amazon CloudWatch RUM** for real-user monitoring capability that helps identify and debug issues in the client-side on web applications, Facebook Pixel for collecting data that helps track conversions from Facebook ads, optimize ads, build targeted audiences, Google Analytics for providing reports and insights related to the website, **Hotjar** for improving the site's user experience and performance and **Cloudflare** for DDoS protection.
2. Developed a comprehensive **Learning Management System (LMS)** using 3-Tier Architecture. **Bootstrap**, **Vue.js**, **Inertia.js**, **MySQL** and **Laravel** used in the backend. **Tailwind** and **Nuxt.js** are used in frontend. **Video on demand (VOD)** service built using **AWS (S3, Cloudfront, DynamoDB, Step Functions, SNS, SQS, Lambda and Media Convert)**. **KASM** integrated built for browser-based **Linux (BBL)** experience for students. LMS is integrated with **ZOOM** for live classes, **AWS Cognito** for federated identity and **Milisearch** for blazing fast searching.
3. Developed **Association Management Software (AMS)** using **Bootstrap**, **Vue.js**, **Inertia.js**, **MySQL**, **Laravel** and multiple **AWS** services like **SQS**, **SES**, etc. AMS is an end-to-end management application

which includes **lead management**, dynamic leads **distribution**, **sales reports**, and commissions reports, **HRMS** modules, **ITSM** based modules to track employee work progress and project progress and Email marketing modules.

4. Developed **Automatic Translation Software** in which python was used in conjunction with **Microsoft's Azure Text-to-Speech Cognitive Service** to create synthetic human voices with **timestamps**.
5. Developed AI Nafi Stream using **3-Tier Architecture**, with **Tailwind and Nuxt.js** for the frontend and **Django** supporting the backend. Used **Django channels and Redis (AWS ElastiCache)** for real-time communication using **WebSockets**.
6. Developed **Data Lake** using **S3 and RDS** for data storage. **AWS Glue** is used to create, run, and monitor ETL processes visually and load data into data lakes from diverse sources. To visualize data and create interactive dashboards **AWS Quicksight** is used.
7. Designed **complete infrastructure monitoring** solution using **Grafana** for data analytics and visualization and **Prometheus** to collect real-time metrics from multiple sources.

## May 2016 – Feb 2022

### Freelance – Full Stack Developer

1. Build multiple web applications which includes **CMS, CRM, SEO-Friendly Blog, Ecommerce System, etc.** using **Laravel, CodeIgniter, Django, Nuxt.js and MEVN Stack**.
2. End to end automations using **Python, Bash and Expect Scripts** which includes data scraping, data cleaning, data storage and generation of reports on day / weekend.
3. Build a web based remote access and remote-control computer software using **MEVN Stack** for server side, **Socket.io** for server-client communication and **C#, C++ and PowerShell** for client side.
4. Build multiple Decentralized Applications (**dApps**) using **Bootstrap, Vue.js, Web3.js and Solidity**.
5. Coded scripts for Automated Recon, Network Scanning and Vulnerability Scanning which does multiple things like **sub-domains discovery, directory discovery, CORS Misconfiguration scanning, CRLF Injection scanning, Github Recon, etc.**

## Oct 2021 – Jan 2022

### Avanza Innovations – Blockchain Developer

1. Worked on frontend and backend of company's **Hyperledger Fabric** based portal using **MERN stack**.
2. Created and modified chaincode using **Golang**.
3. Integrated **RabbitMQ** in a project named replicator which grabs all transactions from blockchain and stores them in a NoSQL database.

4. Created a system that creates multiple dynamic charts using **D3.js** which was created on the fly by a uniquely complex query requested by the user using a user-friendly form.

## Mar 2017 – Sep 2019

### OctaDev – *Lead Developer*

1. Communicated with clients for project requirements, project progress, etc.
2. Worked on several projects using **PHP, Laravel, JavaScript, CodeIgniter, WordPress and Python**.
3. Developed / maintained websites and scripts for the company itself.
4. Worked with the **SEO** team on company's multiple blogs.
5. Worked with the Security team for automation scripts.

## Sep 2016 – Jun 2017

### Alpha Tech – *Backend Developer*

1. Worked on company's internal desktop-based software using **C#**.
2. Coded automation scripts using **Python**.

## Bug Bounties

Identified and reported security flaws in multiple companies, including **Edmodo, Boozt, Grammarly, Fleep.io, Workana, and Readme.io**, among others, and was rewarded with cash bounties and swags.

## Education

BS Computer Science (Iqra University)

## Certifications

1. Google Cybersecurity | Professional Certificate  
<https://www.coursera.org/account/accomplishments/professional-cert/UY5E9E2GVNPT>
2. DevOps on AWS | Specialization  
<https://www.coursera.org/account/accomplishments/specialization/X3MKZMEPZNUE>
3. OWASP Top 10 | Labs  
<https://tryhackme.com/razapoonja/badges/owasp-10>
4. OWASP Top 10 - 2021 | Specialization  
<https://www.coursera.org/account/accomplishments/specialization/YWSGTULNREN4>
5. Secure Coding in Laravel | Specialization  
<https://www.coursera.org/account/accomplishments/specialization/V6E83R9J8KLC>

6. Problem Solving (Intermediate) <https://www.hackerrank.com/certificates/97f6156e14b6>

## Live Websites

1. <https://tecnezo.com/>
2. <https://www.broadbandmarket.com/>
3. <https://totalcaresupport.com/>
4. <https://nawadiraat.org/>
5. <https://streetlife-uk.com/>
6. <https://www.mintaccountax.co.uk/>

## Portfolio

1. <https://www.github.com/razapoonja>
2. <https://www.upwork.com/freelancers/~01b1107cacd6365655>
3. <https://stackoverflow.com/users/5603861/raza-poonja>
4. <https://laracasts.com/@Raza%20Poonja>
5. <https://www.hackerrank.com/profile/razapoonja>
6. <https://tryhackme.com/p/razapoonja>

## Awards

1. 1st Position for "**Designing and Fabrication of Autonomous Fire Fighting Robot**"
2. Got scholarship in 2<sup>nd</sup> semester (6<sup>th</sup> position in batch with highest marks in programming).