



Syed Rafey Husain

Head of Engineering

25+ years of software engineering experience in building scalable web, cloud, and mobile solutions. Worked with multicultural, diverse teams distributed across the globe. Vast experience in cutting-edge technologies, and frameworks including 20+ programming languages and 100+ technologies.

Phone: **+923232362208** | Email: rafey.husain@gmail.com | Location: **Pakistan**

SKILLS

Languages & Frameworks

Python | JavaScript | PHP | C# | Go | VB.NET | ASP.NET MVC | VB6 | TypeScript | Java | VC++ | Web API | Entity Framework | Django | Pandas | Laravel | CodeIgnitor | .NET | WordPress | MFC | Win32 | OOP | Multithreading | DDD | TDD | BDD | DRY | SOLID

Cloud & Scalability

AWS | EC2 | AWS Lambda | Amazon RDS | DynamoDB | Amazon CloudFront | Amazon S3 | Elastic Load Balancer | Amazon VPC | Amazon API Gateway | Azure | Varnish | NewRelic | SaltStack | Kibana | Redis | Replication | Sharding | Docker | Kubernetes

Web & Mobile

REST API | GraphQL | Angular | React | Redux | Jest | React Testing Library | Redux Saga | Responsive Web Design | Tailwind | Bootstrap | NodeJS | HTML5 | CSS3 | PWA | AMP | ReactNative | Mocha

Databases & Big Data

MySQL | MongoDB | Cassandra | SQL Server | Firebird | Azure SQL | ElasticSearch | ETL | PowerBI | SSIS | SSRS | Business Intelligence | Spark | Hadoop | MapReduce | Hortonworks | Hive | HBase | Kafka | Zookeeper | YARN | HDFS

AI & IoT

LangChain | AWS IoT | IoT Rule | IoT Registry | MQTT | IoT Broker | AWS SNS | Scikit | TensorFlow | EC2 GPU | AWS Auto-Scaling

Software Processes & Tools

Scrum | Agile | Kanban | ISO | CMMI | KPI | CICD | TDD | JIRA | MS Teams | BaseCamp | MS Project | GitHub | TeamCity | ServiceNow | Unfuddle | Assembla | GitLab | Docker | Test Track | Bugzilla | Perforce | GIT | SVN | VSS | TFS | GitFlow

Soft Skills

Coaching | Feedback | 1-on-1 meetings | Strategy & Tactics | Planning | People management | Presentation | Complex problem-solving | Critical thinking | Creativity | Emotional intelligence | Judgment and decision-making | Service orientation | Negotiation skills | Cognitive flexibility | Digital Transformation | Documentation | Estimation | Appraisals | Recruitment

EDUCATION

B.E. Mechanical, N.E.D University of Engineering & Technology 1997.
Sun Certified Programmer for Java2 Platform - USA.
Microsoft Certified Solution Developer (MCSD).
IELTS band 7.

WORK EXPERIENCE

Head of Engineering at Pop Social Karachi Pakistan (Remote)

September 2023– Present

- Directed and mentored a multifaceted team comprising product owners, React Native developers, SpringBoot/GO engineers, AWS DevOps specialists, support team, content writers, security and QA professionals to build popsocial.io, the next generation social gateway to Web3 and crypto.

- Provided strategic leadership, fostering a collaborative and innovative work environment that resulted in cohesive team dynamics and optimal productivity.
- Spearheaded the end-to-end development lifecycle of [popsocial.io](#), orchestrating seamless coordination among various engineering disciplines to ensure timely and high-quality deliverables.
- Implemented agile methodologies to enhance project efficiency, enabling the team to adapt swiftly to changing requirements and market demands.
- Initiated and executed initiatives to optimize the technology stack, leveraging the latest advancements in React Native, SpringBoot, GO, and AWS services.
- Collaborated with cross-functional teams to identify and implement innovative solutions, resulting in enhanced system performance, scalability, and overall user experience.
- Fostered effective collaboration and communication among diverse teams, including product owners, engineering, DevOps, and QA, ensuring a cohesive approach to product development.
- Facilitated cross-functional workshops and knowledge-sharing sessions to promote a holistic understanding of the product roadmap and encourage interdisciplinary problem-solving.
- Implemented robust QA processes to uphold the highest standards of software quality and reliability for popsocial.io.
- Instituted continuous improvement practices, regularly conducting retrospectives and feedback loops to identify areas for enhancement in both processes and team performance.

Cloud Solutions Architect at GET Consulting Karachi Pakistan (Remote/Freelance)

June 2022– September 2023

- Spearheaded cloud team to develop AX Dynamic multi-tenant SaaS using Azure Functions, Cosmos, Service Bus, Redis, Angular.
- Responsible for all aspects of overall technology vision, commercial software product development & customer delivery.
- Led 15 personal software teams developing ERP integration, replication, and business intelligence products.
- Accelerated product execution using agile techniques to ensure budget, schedule, and scope adherence.
- Amplified work on SCRUM planning, grooming, and execution of short and long terms process and technical goals.

Senior Software Architect at TradeSun Karachi Pakistan (Remote/Contract)

September 2021– December 2021

- Responsible for JPMorgan team of 5, building [TradeSun](#) with AWS Lambda NodeJS/Python, Angular 8, Serverless, DynamoDB, SQS.
- Designed AWS Step function-based workflow for OCR, document analysis, and compliance checks.

Senior Software Architect at Modus Create, Karachi Pakistan (Remote/Contract)

February 2021– April 2021

- Fostered a team of 21 for AARP [MoneyMap](#) analytics based on React, Apollo Client, Apollo Server, GraphQL, Google Analytics, GTM, Mixpanel, Adobe Analytics, and Aurora integration.
- Expedited guidance of Product Owners, DevOps, Client Partners, and Technical leads for the definition of analytics architecture to effectively support business strategy.

Senior Software Architect at ApexChat, Karachi Pakistan (Contract)

July 2020 – September 2020

- Architected a 10-year-old product [ApexChat](#) to scalable socket.io and AWS Fargate, SQS, SNS, NodeJs, and microservices.
- Redesigned existing ASP.NET SQL Server with technologies like CloudFront, S3, React, DynamoDB, Lambda, CICD, and Typescript.

Software Engineering Manager at iVolve, Karachi Pakistan (Contract)

January 2020 – March 2020

- Guided [Cloud7](#) team of 15 to build Cloud UI for OpenStack using React, Redux, NodeJS REST microservices and Jenkins CICD.
- Expedited implementation of JIRA, Jenkins CICD, peer review, QA & DevOps processes for a team of 15.
- Outpaced in the planning of product quarterly roadmap, weekly sprints, tech demos, and definition of short and long terms goals.

Senior Software Architect at 10Pearls, Karachi Pakistan (Contract)

July 2019 – October 2019

- Architected IoT Smart Gun Cover system using AWS IoT, AWS SNS, GPU cluster to run Python TensorFlow classification.
- Outperformed in deployment of 100+ [HBL](#) REST API using Kong, MEAN Stack, Postgres, Prometheus, GitLab, Kubernetes, Docker.
- Architected [EJ](#) system using ReactJS, React Native, .NET Core, Azure SQL, App Service, DevOp Pipelines, SonarQube, ESLint.
- Reduced cost by fostering as a Process Architect in a team of 7 and surpassed team effectiveness using Scrum on JIRA.

JavaScript Engineer at castLabs Berlin, Germany (Contract)

March 2019 – April 2019

- Coded JavaScript [PRESTOplay](#) Chrome-cast integration using Shaka & VideoJs for HLS, DASH, Widevine™, PlayReady & FairPlay.

Senior Software Architect at iPrice Group Kuala Lumpur, Malaysia (Contract)

November 2017 – May 2018

- Managed Azure, PowerBI, Python, BCP, Cassandra, and Google Analytics based [e-commerce](#) data warehouse for 300 million products.
- Directed team for Python-based data science algorithms to sort and recommend e-commerce products for 7 countries.
- Campaigned with department heads to determine the feasibility of applying the Hadoop ecosystem.

Senior Software Architect at Contour Software, Karachi Pakistan

June 2016 – December 2016

- Boosted offshore development and deployment of 20+ years old Homebuilder ERP named [FAST](#). Responsible for all aspects of 4000+ CPL programs, 29 C++ projects & 38 VB6 projects at the Karachi office for offshore development. Engineered VC++/MFC, VB6/DHTML, and .NET-based modules comprised of diagnostics, setup, and other product enhancements.

Technical Project Manager at Nanosoft Technologies, Karachi Pakistan

March 2016 – April 2016

- Expedited product specifications of issue tracking product [TaskQue.com](#) for a startup. Coordinated product development process and REST API Wiki for PHP Lumen/Yii. Envisioned AWS, AngularJS2, MongoDB, Pantaho, MySQL-based micro-service architecture, and MEAN stack-based real-time notification architecture. Performed UX reviews for iOS & Android apps.

Project Manager at SnacGlobal, Karachi Pakistan

December 2015 – March 2016

- Pioneered GitLab-based process for an e-commerce startup. Envisioned AWS-based architecture for a Magento, Redis, and MySQL replication based for the e-commerce site [CrazyDeals.com](#). Achieved massive performance gain using Varnish cache.

Senior SharePoint Consultant at Saudi Business Machines – SBM, Jeddah Saudi Arabia (Contract)

September 2015 – October 2015

- Implemented Metronic CSS to [SEC](#) Historical Data Sites (HDS). Proposed SharePoint implementation for HDS.

Senior Software Architect at Al Jazeera Media Network, Doha Qatar (Contract)

October 2013 – November 2014

- Built high-performance AJAX-JSON framework 'ORYX Packet System' for Aljazeera Editorial Staff CMS named 'ORYX'.
- Designed and co-authored [Video on Demand](#) site based on BrightCove, Amazon Cloud, SASS, JSP, Grunt, NodeJS & Ruby.
- Devised the technical infrastructure to support Video on Demand on Amazon Cloud.
- Compiled client specifications for a Moodle-based Training Center system.
- Arbitrated internal clients at all levels to identify needs and evaluate alternative business solutions.
- Introduced user training workshops procedure, to ensure efficient use of JIRA.

Senior Project Manager at Object Synergy, Karachi Pakistan

April 2013 – June 2013

- [Managed](#) a UK gym responsive website using Bootstrap, ASP.NET MVC & jQuery. Managed Xamarin-based mobile app team.
- Enabled architecture of a Bootstrap-based responsive site and SharePoint/Silverlight site.

Technical Architect at KNYSYS, Karachi Pakistan

November 2012 – February 2013

- [Restructured](#) Flex-based mobile product suit for task & money management named Activity Log & Spending Log.
- Inspired a startup product team of 10 Developers, Creative Designer, and Project coordinator.
- Redesigned Python-based HIPPA product DASH for [StreamlinedMedical.com](#). Simplified Unfuddle SDLC process for a team of 10.

Manager Web Technologies at Invortex Technologies, Karachi Pakistan

July 2012 – December 2012

- [Headed](#) a team of 35 project coordinators, graphics designers, salespeople, PHP developers, and HTML designers.
- Monitored execution of 70+ PHP, WordPress, Magento, OpenCart & iOS projects using Assembla.
- Oversaw all aspects of Assembla SCRUM SDLC through for a team of 35. Designed Project Ranking/Resource Matrix.

Project Manager at Innovative Solutions, Karachi Pakistan

December 2009 – May 2011

- Led all aspects of architecture & product development, including, make vs. buy analysis, investment rationalization &, and delivery schedules for high-volume commercial gaming platform, power generation project & web applications for Royal Group.
- Spearhead delivery of 50+ releases of scalable gaming [InfinityChess.com](#) having 2300+ features. Product building blocks include SQL Server database, .NET 2.0, 3.5, C#, LINQ, WPF, Wowza, ASP.NET, Visual Studio 2008, iPhone SDK & VC++.
- Developed all implementation processes, including estimation, staffing, development, training & post-implementation support.

Senior Software Engineer at TimeXperts Pvt. Ltd., Karachi Pakistan

September 2008 – December 2008

- Worked on Java-based [Workforce](#) time management software.
- Fixed defects and participated in highly complex offshore product development training using Perforce, IntelliJ Idea, and databases like Oracle, MySQL, and PostgreSQL.

Technical Architect at Pakistan Revenue Automation Company – PRAL, Karachi Pakistan

November 2007 – April 2008

- [Headed](#) broad integration strategy for FBR & Pakistan Customs to port AS400, COBOL, DB2, VB6 & Oracle applications to ASP.NET.

Technical Lead at GoodCore Software, Inc., Karachi Pakistan

September 2006 – August 2007

- Coded FIX Simulation Engine to test FIX 4.1, 4.2 & 4.3 on [Nirvana Financial Systems](#) Offer System for NY Stock Exchange.
- Built a Help Desk solution using Coversant SoapBox Server integration.
- Delivered a highly successful implementation of Excel-based profit & loss for [BTIG](#) using DDE, C# & FireBird 1.5 database.

Senior Advisory Consultant at Systems Limited, Karachi Pakistan

August 2005 – September 2006

- Supervised 4 for a high-volume e-commerce site [SimplyWireless](#) using ASP.NET, SQL Server, NxBRE, and Navision.
- Pioneered document recognition & indexing product [VisiOCR](#) for Bank of America & First Horizon. Supervised Image Analysis System.

Senior Software Engineer at eDev Tech, Karachi Pakistan

January 2004 – April 2005

- Motivated 4 for the successful implementation of [Rules Designer](#), iPortal, Business Rules Specification Modeler, IDEA Setup.
- Implemented handheld device-based Paperless Warehouse Windows CE prototype for [Activant](#), USA.

Senior Consultant II at netNumina, Greater Boston Area, MA USA

November 2000 – March 2001

- Coded [Agilent](#) USA – B2C Healthcare Website using Win2K, ASP, VB6, SAP, Saqqara, Propriety Object Models and JavaScript.

Senior Software Engineer at CORRTEC LLC, Karachi Pakistan

September 1999 – October 2000

- Mentored team to build Tradex – B2B Bank Risk Management system for ABN AMRO, USA using ASP, VB6, MSSQL7, JavaScript, COM.

Software Engineer at Itim Systems, Karachi Pakistan

November 1997 – October 1998

- Developed VC++ classes for Ladbroke's Dispatcher (LBD) using thread & registry API.
- Built VC++ Teletext Service for ASTET and RTFU protocols. Coded VC++ classes for Reverse Engineer product.

ARTICLES

[Challenges and solutions - Architecture of a Modern Web Application - Part 1](#) | [JavaScript - Part 2](#) | [Mobile App - Part 3](#)

RECOMMENDATIONS

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