

Contact

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Top Skills

Terraform
Software Architecture
Lucidchart

Languages

English (Full Professional)
Chinese (Limited Working)

Certifications

TypeScript Essential Training
AWS and React: Creating Full-Stack Apps
JavaScript: Async
Ethics in the Age of Generative AI
Creating a Serverless Application Using React in AWS

Asad Rana

Senior Solutions Architect | Distributed Systems | Golang • Temporal
• Next.js • Django • AWS
Lahore District, Punjab, Pakistan

Summary

I am a Senior Solutions Architect dedicated to designing and implementing high-availability, distributed systems that solve complex business challenges. My architectural philosophy centers on bridging the gap between high-level strategic goals and robust, scalable execution. With over five years of experience across the UK and Pakistan tech landscapes, I specialize in building resilient backend orchestrations using Golang and Temporal, alongside high-performance web ecosystems powered by Next.js and Django. By leveraging AWS for cloud-native infrastructure and integrating AI-augmented engineering into the development lifecycle, I focus on delivering technical excellence that maximizes both system throughput and long-term maintainability. My career has evolved from deep-dive research in Machine Learning and Computer Vision at OneScreen Solutions to architecting international cloud infrastructures for US-based ventures like Swipe Fox. This journey has equipped me with a unique perspective on the entire software lifecycle, from the nuances of data modeling with Prisma to the complexities of state management in long-running workflows. I thrive in environments that require navigating sophisticated technical debt, optimizing cloud-scale performance, and leading engineering teams toward modern, fault-tolerant architectural patterns.

Experience

Aurix
Senior Solutions Architect
January 2026 - Present (9 months)
Lahore

As a Senior Solutions Architect, I am responsible for the end-to-end technical strategy and architectural integrity of enterprise-grade systems. I lead the transition from monolithic patterns to scalable, distributed architectures, ensuring that our technical stack aligns with long-term business goals and operational excellence.

Key Contributions:

Distributed Systems Design: Architected fault-tolerant orchestration layers using Temporal and Golang, specifically designed to handle complex, long-running business logic with 100% state persistence and reliability.

Full-Stack Architectural Strategy: Defined the technical blueprint for high-concurrency web applications using Next.js, leveraging Server Actions and advanced caching strategies to optimize for both performance and developer velocity.

Enterprise Backend Systems: Engineered robust, scalable backend services using Django, focusing on secure data modeling, optimized query performance, and seamless integration with distributed microservices.

Cloud Infrastructure & DevOps: Designed and implemented cloud-native environments on AWS, managing multi-tier architectures, container orchestration, and automated CI/CD pipelines to ensure 99.9% uptime.

Data Modeling & Governance: Led the design of complex relational schemas using Prisma, ensuring data consistency across distributed services and optimizing database interactions for high-throughput environments.

AI-Enhanced Engineering Leadership: Established protocols for AI-augmented development using Claude Code to accelerate architectural prototyping, codebase refactoring, and technical debt reduction.

Innovation Insight

Senior Full Stack Engineer

May 2025 - January 2026 (9 months)

Lahore

In this role, I'm focused on designing and developing high-performance, end-to-end web/mobile applications. I leverage a modern full-stack approach, using Next.js for both frontend rendering and backend logic via Server Actions, alongside React Native for mobile. I collaborate with cross-functional teams to transform innovative ideas into complete, user-friendly solutions.

My work involves optimizing full-stack performance—from front-end responsiveness to API and database query efficiency—and ensuring scalability

by leveraging cloud infrastructure on AWS. I actively use AI augmentation with Claude Code to accelerate development, refactor complex components, generate boilerplate, and debug issues across the codebase.

Key responsibilities include architecting robust, scalable solutions. This involves designing data models and managing database interactions with Prisma, building and integrating secure APIs, and handling asynchronous background jobs with Trigger.dev. I ensure code quality across the entire application, from frontend testing with Playwright to backend integration tests, often assisted by AI.

What excites me most about Innovation Insight is the opportunity to work on cutting-edge, full-stack projects that solve real-world problems. Whether it's architecting a new AWS-powered service, optimizing a Next.js data flow, or finding novel ways to apply AI augmentation, every task is a chance to push the boundaries of what's achievable.

SparkAi

Senior Full Stack Engineer

August 2023 - April 2025 (1 year 9 months)

Lahore

As a Senior Full Stack Developer at SparkAi, I led the development, management, and deployment of several key projects, steering the team within an Agile development framework. I developed and deployed the company's official website, optimizing it for performance and user experience. My role extended to managing multiple projects concurrently, where I architected full-stack solutions and tackled complex problem-solving challenges. A core part of my responsibilities included building robust backend systems, integrating Django and Node.js for server-side logic and API development. I also actively mentored and trained internees on both web and mobile technologies, fostering best practices and ensuring a high standard of code quality across the team.

SwipeFox

Solution Architect

May 2022 - June 2023 (1 year 2 months)

As the Solution Architect for SwipeFox, I was responsible for designing the high-level technical blueprint and end-to-end system architecture that powered the SwipeFox web, PWA, and mobile applications. This was a hands-on role where I not only designed the complete solution but also led and executed the

core backend development, building the server-side logic and APIs that served as the foundation for all platforms.

My primary architectural focus was on AWS, where I designed, deployed, and managed a scalable and resilient cloud infrastructure. I selected and configured the optimal AWS services to meet the application's needs, including leveraging EC2 instances for reliable compute power, utilizing S3 for secure and scalable storage of static assets and user content, and integrating SES (Simple Email Service) to handle all transactional email communications.

Beyond the technical design and implementation, I served as a key technical point of contact, coordinating directly with clients to understand their requirements, analyze trade-offs, and provide prompt, architecturally-sound solutions. I was fully integrated into the team's Agile process, actively participating in weekly Scrums to ensure the development roadmap was in lockstep with the architectural vision and client expectations.

GlobeWyze Inc.

Frontend Developer

April 2022 - June 2023 (1 year 3 months)

Islāmābād, Pakistan

As a Front-End Developer at Globe Wyze Inc., I specialized in designing and developing sophisticated, responsive web applications. My primary focus was on the user interface, where I leveraged React.js and Next.js to build dynamic, high-performance, and cross-browser compatible applications. I was responsible for translating design concepts and wireframes into pixel-perfect code. A key part of my role involved consuming REST APIs for seamless data communication, effectively fetching, managing, and displaying data from backend systems to create a fluid and interactive user experience.

OneScreen

Full Stack Engineer

January 2022 - April 2022 (4 months)

Islāmābād, Pakistan

At OneScreen, I worked as a Software Developer on innovative features for smart boards. My role involved collaborating directly with the research team on Machine Learning and Computer Vision projects. I was responsible for developing and implementing specialized software focused on enhancing the classroom experience, including features for automatic attendance tracking and real-time gaze detection. A key part of my work was to implement features

that could measure student attention spans, providing valuable insights to enhance classroom engagement.

Discret Digital Pvt Ltd

1 year

Senior Full Stack Engineer

June 2021 - December 2021 (7 months)

Islāmābād, Pakistan

As a Senior Full Stack Engineer at Discret Digital Solutions, I led the end-to-end development of cutting-edge mobile and web applications. My role was comprehensive, starting with designing the complete architecture to ensure we built responsive, high-performance apps. I personally developed the robust backend systems using Node.js and Express.js, integrating them seamlessly with dynamic frontend interfaces built in React. On the data side, I managed the databases using MongoDB, focusing heavily on query optimization and scalability to support large-scale applications.

Full Stack Engineer

January 2021 - June 2021 (6 months)

Islāmābād, Pakistan

As a Full Stack Developer at Discret Digital Solutions, I was responsible for developing and maintaining new and existing web applications. This involved using React.js for building cross-browser compatible frontends and Node.js for the backend logic. In addition to my web responsibilities, I contributed to mobile app development with React Native, focusing on implementing intuitive and engaging UI/UX designs. I worked in close collaboration with the team to debug and resolve technical issues, ensuring smooth application performance across all platforms.

Repla Security and Technology

React Native Developer

November 2020 - December 2020 (2 months)

Rawalpindi

Sysbitechology

Software Development Intern

April 2020 - October 2020 (7 months)

Rawalpindi

- Collaborated with the team at Sysbitechology to develop React Native mobile applications.

- Gained hands-on experience in mobile app development and worked on various projects.
- Contributed to the creation of user-friendly and efficient mobile applications.
- Assisted in testing and debugging mobile applications to ensure high quality.

Education

COMSATS University Islamabad

Bachelor of Science - BS, Computer Science · (2018 - 2022)