

KHAWAJA ASAD GOHAR

SENIOR SOFTWARE ENGINEER | FULL STACK DEVELOPER

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SUMMARY

I am a passionate software engineer with over 4 years of experience specializing in crafting efficient and scalable software solutions. My journey is driven by a deep curiosity for science and technology, focusing on full-stack development, database design, and cloud technologies using JavaScript, Node.js, React.js, Next.js, Nest.js, DevOps, and AWS. I have successfully led teams and projects from inception to MVP and beyond. Thriving in collaborative environments, I excel in fostering team spirit and working with diverse teams.

KEY AREAS OF EXPERTISE

- JavaScript
 - Typescript
 - React JS
 - Next JS
 - Node JS
 - Express JS
 - NestJs
 - SQL
 - Prisma
 - PostgreSQL
 - Blockchain
 - Solidity
 - Web3 JS
 - Ethers JS
 - Remix IDE
 - AWS
 - Git
 - BitBucket
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EXPERIENCE

MEMORIES EVENTS MANAGEMENT

Team Lead / Full Stack Developer

- Led backend development for Hailo — a secure event management platform used internally and to be released for organization in near future.
- Architected and implemented microservices using NestJS and PostgreSQL with a real-time socket-based system for collaborative workflows.
- Contributed to security and compliance efforts, including encrypted storage, access logging, and audit readiness.
- Deployed and managed infrastructure across Heroku and AWS (CloudFront, S3), enabling zero-downtime releases with CI/CD.
- Enforced secure file delivery using signed CloudFront URLs and strict CORS/domain controls.
- Designed the entire database schema from scratch, covering complex entity relationships and access logic.
- Created system and use case diagrams to guide backend architecture and feature planning.
- Contributed to UI/UX discussions with input on functional behavior, edge cases, and performance.

SPADASOFT TECHNOLOGIES

Senior Software Engineer

- Leveraged expertise in NodeJS, ExpressJS and NestJS, for robust server-side development, ensuring seamless integration with front-end components.
- Reduced build size by 1500% and improved hot reload speed by migrating the build tool from CRA to Vite.
- Significantly enhanced the load speed of listing pages, achieving consistent performance regardless of the number of records.
- Single handedly developed the backend from scratch using microservices architecture.
- Implemented optimized AWS deployment strategies, reducing server response times by 20% and enhancing scalability, resulting in improved application performance.
- Responsible for development, maintenance, and optimization of consumer-facing websites.
- Managed DevOps: Infrastructure, Deployment, CI/CD
- Built scalable Digital Data Room project for a US-based client, led a team of 5 developers. Ensured application complied 100% with HIPAA compliance checklist 2024.

DEVSINC

Software Engineer

- Produced high-quality, error-free code in adherence to project scope, effectively minimizing performance issues and enhancing overall system reliability.
- Spearheaded the development of Serverless Cloud Functions using AWS Lambda
- Spearheaded robust authentication, implementing MFA for a 30% reduction in unauthorized access. Ensured regulatory compliance and user trust through security audits and encryption standards.
- Demonstrated proficiency across a spectrum of web technologies, including TypeScript, Amazon Web Service, MongoDB, PostgreSQL, NextJS, to cater to diverse project requirements.
- Mentored Junior Architects, nurturing a culture of knowledge-sharing and ensuring consistent team quality and productivity
- Designed responsive web application using Java, React and Node js leading to a 35% increase in user engagement and a 40% reduction in load time. .
- Conducted code reviews and provided feedback to improve code quality
- Presented cost-effective architectural solutions, striking a balance between cost, quality, and schedule requirements.
- Documented RESTful API using Swagger/OpenAPI, enabling clear communication between front-end and back-end teams.

RELEVANT PROJECTS

HAILO

React (Vite) - Nest JS - Typescript - AWS

Hailo is an all-in-one Event Management System built to streamline project execution, collaboration, and approvals across teams. It allows event companies to manage briefs, assign multiple stakeholders, track tasks, and handle documents in one centralized platform. With role-based dashboards, in-app notifications, approval workflows, and integrated procurement and finance, EMS ensures every project moves smoothly from planning to delivery while maintaining full transparency and accountability.

WAWCD

React - Nest - Heroku - AWS - Typescript

WAWCD is a CRM tool developed as a chrome extension, it enables Whatsapp user to supercharge their chat application with features such as Schedules messaging, Importing contacts and Chats, Creating audience, Broadcasting with custom templates, ChatGPT integrations, Hubspot Integrations and much more.

LOCKROOM

Postgres - Next - Nest - Typescript

A virtual data room to store and share business documents for M&A deals, fundraising, and other activities that require due diligence. Data rooms are also used by law firms and journalists for regulatory reasons. I had led this project, created Database designs, and system architecture.

FLO BY MOEN

Node - DynamoDB - AWS Lambda - Typescript

IoT based application, collecting insights for agricultural and domestic water distribution. From sprinklers to showers every ounce of water flow is being recorded and analyzed the end user. Insights include drainage, water saved, water spilled, water leakage. Using server-less architecture for scalability and cost efficiency

EDUCATION AND QUALIFICATIONS

Bachelor of Science in Software Engineering

Majors: Web Development

Comsats University Islamabad, Lahore Campus