

SYED FARAZ HASAN SHAH

Senior Software Engineer III | Technical Team Lead

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SUMMARY

A results-oriented Software Engineer III and Technical Lead with over 8 years of comprehensive experience in Full-Stack development, specializing in building scalable, high-performance web applications. Experienced in leading teams of up to 9 engineers, I oversee the design, development, and delivery of enterprise-level solutions while ensuring adherence to software engineering best practices. With expertise in design patterns, SOLID principles, and multiple architectural paradigms, I excel at creating maintainable, modular systems that meet both technical and business requirements. I have a proven track record of applying modern development methodologies, integrating front-end and back-end technologies, and leveraging cloud services to deliver optimized solutions. My approach prioritizes code quality, scalability, and continuous improvement, ensuring the delivery of dynamic, resilient, and user-centric applications that meet the highest standards of performance and reliability.

SKILLS

Programming Languages: Java (including Java EE, Spring Framework, JPA, Hibernate), Apex, Dart, JavaScript, TypeScript, NodeJS, PHP.

Enterprise Applications: Salesforce (Aura/Lightning Experience, Visualforce, CPQ), PowerBI

Frontend: Angular (RxJS, NgRx, Angular CLI, Angular Material, Lazy Loading, Routing), JavaScript (ES6+), TypeScript, HTML5, CSS3, SASS, LESS, Bootstrap, Tailwind CSS, PrimeNG, Responsive Design, Cross-Browser Compatibility, Progressive Web Apps (PWAs)

Backend: Node.js, Spring Boot, Java Servlets, Python

Design Principles: SOLID, Design Patterns

Microservices & Cloud: Spring Cloud, AWS ECS, EKS, EC2, Lambda, RDS, DynamoDB, S3, CloudFormation, Elastic Beanstalk, API Gateway, IAM, Route 53, VPC, CloudWatch, Secrets Manager, RESTful & GraphQL APIs

Performance Optimization: Tree Shaking, Lazy Loading, Route Guards, Component Optimization

Version Control: Git, TFS

Database: MSSQL, MongoDB, MySQL, Oracle DB, JDBC

Project Management: Agile Scrum, Requirements Gathering, Solution Design, Testing, Delivery Optimization

CI/CD & DevOps: Jenkins, AWS CodePipeline, AWS CodeBuild

Testing Tools: Jasmine, Karma, Protractor (E2E), Angular TestBed, API Mocking for Angular Testing.

Emerging Technologies: Blockchain, AI, Cloud Computing, Open APIs

Innovation Management: PoC Testing, Cross-Functional Collaboration, Human-Centered Design

IDEs: VS Code, Visual Studio, IntelliJ Idea, Eclipse

Build Tools: Maven, Gradle

Application Servers: Apache Tomcat, JBoss, Wildfly

CERTIFICATIONS

Salesforce Certified Administrator Oct 2021
[22542477](#)

Salesforce Certified Platform Developer I Jan 2022
[22858026](#)

EXPERIENCE

Senior Software Engineer III 03/2018 - Present
Guru Group [Karachi, Pakistan](#)

- Led the design, development, and maintenance of complex software systems, ensuring high-quality solutions that align with business objectives.
- Collaborated closely with senior engineers to optimize project outcomes, contributing to system architecture and design decisions.
- Spearheaded requirements gathering sessions, working with stakeholders to capture functional and technical requirements, ensuring clear project direction.
- Implemented innovative solutions by leveraging expertise in full-stack development, applying technologies such as Java, Spring Boot, Angular, AWS, and Microservices.
- Actively participated in the entire software development lifecycle, from system design to testing and deployment, ensuring seamless project execution and timely delivery.
- Led cross-functional teams, promoting collaboration between developers, testers, and business analysts to ensure alignment with project goals and deadlines.
- Provided mentorship to junior engineers, fostering a culture of continuous learning and technical growth within the team.
- Focused on performance optimization, code quality, and adhering to best practices such as SOLID principles, Design Patterns, and CI/CD practices.
- Remained committed to professional growth, regularly researching and integrating emerging technologies like AI, Cloud Computing, and Blockchain into project deliverables.
- Played a pivotal role in delivering enterprise-level software solutions, consistently meeting project milestones and enhancing the team's technical capabilities.

Software Engineer

Kcompute

03/2017 - 03/2018

Karachi, Pakistan

- Actively engaged in developing and maintaining software systems as a Software Engineer, under senior team members' guidance.
- He has participated in key project phases: requirements gathering, design, implementation, and testing.
- Leveraged the role as an opportunity to learn from experienced colleagues and enhance technical skills.
- Provided valuable insights for process improvement, contributing to more efficient development practices.
- Demonstrated dedication to delivering high-quality code and keeping pace with emerging technologies and industry trends.
- Played a crucial support role in the software development life cycle, aiding in the creation of robust and innovative software solutions.

PROJECTS

Thynk Cloud PMS

Thynk Cloud

Amsterdam, Netherlands

Environment: Java Spring Boot, Salesforce, AWS Cloud, MEWS, Opera / OHIP, StayNTouch, Seritfi

Project Overview: Design a middleware framework for Thynk Cloud to facilitate synchronous read and write operations from Salesforce to various Property Management Systems (PMS). Develop a microservices architecture and design patterns. Enhance and optimize the AWS infrastructure for increased reliability and stability.

Responsibilities:

- Led the system's design and development, focusing on seamless Salesforce integration.
- Engineered and maintained the system framework, ensuring robust functionality.
- Managed database operations and developed a user-centric interface to simplify registration.
- Implemented and maintained an email notification system for effective communication.
- Conducted comprehensive testing to ensure system reliability and performance.
- Oversaw ongoing system maintenance and updates to enhance user experience.
- Facilitated stakeholder collaboration to gather requirements and integrate feedback.
- Enforced stringent security and privacy measures to protect sensitive user information.

Dynamic Document Generator

Xtimobile

Texas, USA

Environment: Angular, Node.js, MongoDB, AWS Lambda, Puppeteer

Project Overview: Developed a web-based application that allows users to dynamically generate customized documents (PDF or Word) based on specific input parameters or templates. The system supports exporting documents in various formats and integrates with cloud services for document storage and retrieval.

Responsibilities:

- Designed an Angular-based user interface for creating, customizing, and previewing documents in real time.
- Implemented dynamic forms using Reactive Forms for capturing user inputs specific to the document's requirements.
- Built reusable Angular components for document preview, template selection, and format configuration.
- Developed a template library allowing users to select pre-built templates for different use cases (e.g., invoices, contracts, reports).

- Enabled users to upload custom templates in DOCX or HTML format for personalized document generation.
- Built RESTful APIs in Node.js to handle document generation requests and integrate with Puppeteer for rendering templates into PDF format.
- Used Mammoth.js to convert DOCX templates into HTML for customization in the Angular app.
- Integrated MongoDB for storing user-specific templates and document history.
- Enabled export of documents in PDF and Word formats using Puppeteer for PDFs and docx4j for Word files.
- Implemented functionality to email the generated documents to users directly or store them securely in AWS S3.
- Wrote unit tests for Angular components using Jasmine and API tests with Postman to ensure robustness.
- Optimized PDF generation by reducing rendering time with Puppeteer caching.

Middleware Analytics

Thynk Cloud

Amsterdam, Netherlands

Environment: Angular, Java Spring Boot, AWS Cloud (API Gateway, SQS, Lambda)

Project Overview: Designed and developed a high-end Angular application integrated with AWS APIs and Java backend services to analyze and display real-time data on a dynamic dashboard. The application monitored and showcased details of incoming requests, processing statuses, and failed requests through seamless integration with AWS API Gateway, SQS, and Lambda. Implemented a microservices architecture to ensure scalability, reliability, and performance optimization of the system.

Responsibilities:

- Developed a real-time analytics dashboard in Angular, leveraging RxJS for handling asynchronous data streams and NgRx for efficient state management.
- Designed modular and reusable Angular components, reducing development.
- Optimized frontend performance by implementing Lazy Loading, Tree Shaking, and AOT Compilation, resulting in an improvement in page load time.
- Built robust integration with AWS services, including API Gateway, SQS, and Lambda, for seamless communication and fault tolerance.
- Created a failure tracking and logging system to display detailed logs for failed API requests in real-time.
- Conducted unit testing for components and services using Karma and Jasmine, achieving code coverage.
- Automated deployment pipelines using AWS CodePipeline, enabling continuous integration and delivery of Angular applications.
- Ensured a secure environment by implementing strict API interaction security policies and adhering to best practices.
- Conduct team code review.

AI-Powered Feedback Analyzer

Crystal Guru

Dubai, UAE

Environment: Angular, Python (Flask), TensorFlow, Firebase

Project Overview: Developed a lightweight web application using Angular that leverages AI to analyze customer feedback and provide sentiment insights. The app processed user reviews and classified them as Positive, Neutral, or Negative using a pre-trained machine learning model.

Responsibilities:

- Designed a responsive Angular web interface for collecting user feedback and visualizing sentiment analysis results in real-time.

- Integrated TensorFlow models via a Python Flask API to analyze and classify user feedback as Positive, Neutral, or Negative.
- Utilized Angular Material for building intuitive and interactive UI components, enhancing user engagement.
- Implemented RESTful API communication between Angular and Flask backend to fetch sentiment data dynamically.
- Deployed the Angular app using Firebase Hosting and ensured seamless integration with Firebase's real-time database for data tracking.
- Built dynamic visualizations of sentiment analysis using Ngx-Charts and ensured cross-browser compatibility.
- Wrote unit tests using Jasmine and conducted E2E testing with Protractor to ensure a bug-free user experience.

BGC WOLF CREEK

Ponoka Youth Centre

Windsor, Canada

Environment: Java Spring Boot, Angular, Salesforce, AWS Cloud

Project Overview: I designed and developed an Angular Parent Portal Program Signup System for BGC. The system streamlines the registration process for children's programs. Parents can now effortlessly sign up their children, enter emergency contact details, and receive personalized program information for their community. The system is integrated with Salesforce, allowing for efficient communication through email notifications for confirmations, cancellations, and updates on program availability. This ensures accurate program data dissemination and improves communication efficiency.

Responsibilities:

- Led the design and development of an Angular-based Parent Portal for managing program signups, including multi-step registration forms with dynamic validations.
- Built reusable Angular components to streamline UI development and reduce redundant code.
- Integrated with Salesforce for real-time email notifications, enhancing communication efficiency.
- Designed and implemented a mobile-responsive UI to improve accessibility across devices.
- Optimized application performance by enabling Lazy Loading and compressing assets, reducing load time.
- Tested Angular components and services using Jasmine and Karma to ensure code reliability and maintainability.
- Facilitated stakeholder collaboration to gather feedback and improve the overall user experience.

Cloud Archiving Solution

Share Archiver

Mississauga, Canada

Environment: Java Spring Boot, Microsoft OAuth 2.0, Graph API, SharePoint API, Redis, AWS (EC2, Elasticsearch), Angular

Project Overview: This is a strong software designed to integrate smoothly with SharePoint. It allows for secure access and management of data through modern APIs. The platform offers advanced custom field mechanisms, and archiving functionalities, and uses state-of-the-art caching and logging methods to ensure optimal performance and accountability.

Responsibilities:

- Architected and developed the core integration platform using Java Spring Boot, prioritizing secure interactions and efficient data management.
- Implemented Microsoft OAuth 2.0 for authentication, providing users with secure access to their SharePoint data.

- Seamlessly integrated with SharePoint through two distinct APIs: Microsoft Graph API for broad data access and the SharePoint API for specific functionalities.
- Developed a custom fields mechanism, allowing users to specify and manage personalized data attributes within SharePoint.
- Designed an archiving mechanism, empowering users to download files to their local systems and subsequently delete them from SharePoint for efficient space management.
- Utilized Redis for caching purposes, significantly enhancing application load times and providing users with quicker data access.
- Implemented detailed logging for each user action, ensuring traceability and accountability within the platform.
- Hosted the application on an AWS EC2 instance, optimizing for scalability, availability, and performance.
- Integrated data with the client's Elasticsearch service, enabling the presentation of compiled data in the client's application for enriched insights and analytics.
- Collaborated closely with a cross-functional team, including cloud specialists, security experts, and front-end developers, to ensure the smooth rollout of features and platform updates.
- Conducted regular performance checks and security audits, ensuring data integrity, secure interactions, and optimal user experience.

Healthcare COVID-19 Application

Alabama Clinics

Dothan, USA

Environment: Angular, Java Spring Boot, AWS (Lambda, DynamoDB, S3, SNS), Flutter – Dart

Project Overview: Created a mobile application for COVID-19 testing and vaccination management. The app should capture user information, schedule vaccination appointments, track dosage, and deliver test results directly to the user's email or phone. Additionally, it should assess the user's medical history to better anticipate COVID-19-related health outcomes.

Responsibilities:

- Collaborated in requirements gathering and project planning, ensuring the seamless integration of Java backend services with the Flutter mobile application.
- Developed the Angular web dashboard for managing vaccination schedules, user records, and dosage tracking.
- Key developer in the team, specializing in integrating AWS services and Java-based backend solutions.
- Utilized Java Spring Boot for backend services, leveraging AWS Lambda for serverless operations, and DynamoDB for storing user and test data.
- Integrated AWS SNS to provide timely notifications to users regarding test results and vaccination schedules.
- Led the design and development of the mobile application using Flutter and Dart, ensuring compatibility with the Java-based backend.
- Employed AWS Device Farm to test the application across multiple platforms and devices, ensuring consistent user experience and performance.
- Conducted performance optimizations on Angular components, reducing rendering delays in large data tables.
- Tested the frontend with Jasmine and Karma to ensure robust functionality and reliability.

EDUCATION

Bachelor of Science in Computer Science
Karachi University

2013 - 2017
Karachi, Pakistan

AWARDS & ACHIEVEMENTS

Super Start of the year (2020)

Employee of the Month (12/2022)

Employee of the Month (07/2022)

Employee of the Month (03/2023)

LANGUAGES

English - Professional Working Proficiency