M. TALHA SIDDIQUI

SOFTWARE ENGINEER

ABOUT

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WEB DEVELOPMENT

EXPERT

PYTHON
ASP.NET
JAVASCRIPT

DEVOPS

ADVANCED

TERRAFORM
AWS
AZURE

SOFTWARE ARCHITECTURE

ADVANCED

SCALABILITY
MODULARITY
RESILIENCE
API DESIGN
PERFORMANCE

SOFTWARE DEVELOPMENT

PROFICIENT

SUSTAINABILITY
PORTABILITY
SCALABILITY

PROBLEM SOLVING

ADVANCED

TROUBLESHOOTING
ROOT CAUSE ANALYSIS
DEBUGGING
OPTIMIZATION

SUMMARY

I am an experienced Software Engineer with proven expertise in architecting and implementing cutting-edge solutions across AI, cloud, and enterprise systems. Demonstrated success in spearheading next-generation conversational AI platforms using Azure's advanced services while delivering enterprise-grade API solutions for finance and transportation sectors.

EXPERIENCE

ARCHITECTURE IN MOTION INC.
08/2017 - PRESENT

SENIOR DEVOPS ENGINEER

Successfully implemented API Management solutions, Azure AI Services and improved client satisfaction. Developed custom solutions, automated testing, and reduced system downtime.

- Leading the architecture and implementation of a secure realtime chatbot solution using Azure AI Bot Service along with Azure Cognitive Services and OpenAI Services
- Engineered and deployed enterprise-grade API Gateway solutions across multiple industries including finance and transportation, implementing OAuth2 and OIDC security protocols
- Developed automated CI/CD pipelines using Azure Devops, incorporating infrastructure as code practices for enhanced deployment reliability
- Established comprehensive testing frameworks using Postman, JMeter and Azure Test Plans, ensuring robust performance and security validation
- Orchestrated containerized deployments leveraging Docker and Kubernetes, while implementing monitoring solutions using Azure Monitor and Application Insights

ARCHITECTURE IN MOTION INC.
08/2016 - 08/2017

API-M SUPPORT CONSULTANT

Supervised troubleshooting of production issues and renewed infrastructure with software patches. Automated routine tasks using Bash and API Gateway scripting, boosting productivity and efficiency.

- Engineered and deployed enterprise-grade REST API security policies using Layer7 API Gateway, strengthening cyber defense capabilities
- Automated routine operational tasks through Bash scripting and API Gateway policy development, enhancing team productivity
- Implemented comprehensive system monitoring using Python for Systems Programming for proactive incident detection
- Directed system administration for Linux environments using advanced shell utilities (sed, awk, grep) and managed high-performance MySQL/Oracle SQL databases, resulting in 99.9% system uptime across Production and Lower environments
- Maximized ELK Stack capabilities by implementing advanced Lucene search queries in Kibana, enabling rapid root cause analysis and reducing mean time to resolution for production incidents

GEEKUNIT PRIVATE LIMITED
01/2015 - 08/2015

FRONTEND WEB DEVELOPER

Designed and developed user-friendly web interfaces and implemented new features on existing applications. Collaborated with designers and developers to ensure seamless integration and optimized web page load times through efficient coding practices.

- Designed and developed responsive and user-friendly web interfaces for multiple clients
- Implemented new features and functionality on existing web applications using HTML, CSS, and JavaScript
- Collaborated with UI/UX designers and backend developers to ensure seamless integration of front-end and back-end code
- Optimized web page load times through efficient coding practices and image optimization techniques
- Developed and maintained a component library to improve code reusability and consistency
- Utilized version control tools such as Git to manage code changes and collaborate with other developers
- Kept up-to-date with industry trends and best practices to continuously improve skills and stay current with emerging technologies

PROJECTS

NEXT-GENERATION CONVERSATIONAL AI PLATFORM
04/2024 - PRESENT

- Architected end-to-end technical design using Azure AI Bot Service integrated with Azure OpenAI Services for advanced natural language processing capabilities
- Engineered real-time communication system leveraging Azure APIM Websockets and Azure AI Search for intelligent response routing
- Orchestrated ML pipeline development using Azure Cognitive Services, enabling contextual question-answering capabilities
- Established testing frameworks in Azure DevOps, incorporating continuous integration for rapid feature deployment
- Implemented data-driven sprint management through Azure Boards & Azure Devops Connector for Excel, tracking velocity metrics and enhancement cycles

ENTERPRISE DIGITAL TRANSFORMATION INITIATIVE
04/2024 - 06/2024

- Developed comprehensive system architecture using Azure Solution Architect tools and PlantUML for clear visual documentation
- Leveraged Azure DevOps Boards and Wiki for requirements management and technical documentation
- Implemented testing pipelines using Azure Test Plans and Postman for performance validation
- Utilized Azure Application Insights for real-time system performance tracking within the chatbot codebase
- Orchestrated project delivery through Azure DevOps, maintaining detailed metrics on velocity and quality KPIs using Azure Devops Dashboard

ITERATIVE API INTEGRATION & MICROSERVICES MODERNIZATION
06/2021 - 12/2022

- Built Twitter and AccuWeather integration APIs using Layer7 API Gateway, implementing OAuth2 security protocols
- Engineered reverse proxy architecture for a React based Traintrack application.
- Developed automated testing suites using Postman Collections and JMeter for load testing
- Utilized CI/CD for automated deployment pipelines, reducing deployment time by implementing Infrastructure as Code
- Orchestrated containerized deployments using Docker Swarm for enhanced scalability

FINTECH API GATEWAY MODERNIZATION
08/2019 - 01/2020

- Implemented Layer7 API Gateway policies using JavaScript and Groovy for advanced request processing
- Provided cross-functional collaboration to align technical implementation with business requirements
- Implemented automated CI/CD pipelines optimizing deployment efficiency and reliability
- Established comprehensive API testing frameworks using industry-standard tools
- Integrated secure development lifecycle practices ensuring robust API security

INTEGRATED IDENTITY & ACCESS GOVERNANCE TRANSFORMATION
01/2017 - 06/2018

- Engineered Layer7 API Gateway policies using OAuth 2.0 and OIDC protocols for robust authentication
- Implemented SCIM-based identity management using REST APIs and JSON Web Tokens
- Created comprehensive API documentation using Swagger/OpenAPI specifications
- Established rapid incident response protocols for API infrastructure, maintaining high service availability

CERTIFICATIONS

BROADCOM
09/2023
CERTIFIED EXPERT, API MANAGEMENT IMPLEMENTATION 2023

BROADCOM
09/2023
PROVEN PROFESSIONAL, API MANAGEMENT IMPLEMENTATION 2023

BROADCOM
01/2018
PROVEN PROFESSIONAL, API MANAGEMENT IMPLEMENTATION 2018

EDUCATION

MUHAMMAD ALI JINNAH UNIVERSITY
01/2017 - 12/2018
MASTERS COMPUTER SCIENCE (MSCS)

MUHAMMAD ALI JINNAH UNIVERSITY
01/2015 - 12/2016
MASTERS COMPUTER SCIENCE (MCS)

NEDUET
01/2010 - 12/2013
BACHELORS POLYMER & PETROCHEMICALS