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| Chapal Super Luxury Apartments, Block-13, Gulistan-e-Johar, KarachiKarachi Pakistan 75290  mtalha.dev@gmail.com  (0092) 3122853636  www.about.me/mtalhas  in/mtalhas  mdtalhas  mtalhas Web Development PythonASP.NETJavascript DevOps TerraformAWSAzure Software Architecture ScalabilityModularityResilienceAPI designPerformance Software Development SustainabilityPortabilityScalability Problem Solving TroubleshootingRoot Cause AnalysisDebuggingOptimization Draft documentation docsifyGithubMARPJoplinMermaidJSForm.IO Communication face-2-faceemailspresentationslayman conversions1:1s Languages Urdu (Native speaker)  English (Fluent) Interests  * Software based home solutionsNextcloudOdooKodi * Watching documentariesTED TalksKurzgesagt - in a nutshellUiPathRobotic Process AutomationPBS Space Time | 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.  **Architecture In Motion Inc.** 08/2017 - Present  Senior Devops Engineer   * 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   * 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 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   **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   **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  **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 |