

Haziq Hassan

US Citizen

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Summary

Full-stack software engineer with 10+ years of experience building scalable, high-performance applications across cloud, web, and mobile platforms. Proven expertise in .NET Core, C#, Angular/React, and SQL, combined with strong background in Azure, AWS, and serverless architectures. Skilled in designing REST APIs, microservices, and asynchronous systems with Azure Service Bus/Storage Queues. Experienced in AI/ML integration, predictive modeling, and automation to drive business insights and efficiency. Adept at leading end-to-end software development, from requirements analysis to deployment, with a focus on performance optimization, security, and maintainability. Recognized for delivering measurable results—boosting system reliability, reducing costs, and enabling new revenue streams.

Vistra Corp — Dallas, TX

Full Stack Software Engineer

June 2021 – Present

- Designed and deployed high-performance REST APIs using .NET Core 8, leveraging containerization with Docker to streamline deployments and reduce delivery timelines.
- Implemented rigorous unit testing using industry-standard tools and TDD methodologies to achieve over 90% code coverage, reducing runtime errors to 2 per 1,000 executions and ensuring high software reliability.
- Optimized application response times by integrating Azure App Insights for real-time performance monitoring, achieving latency improvements milliseconds and increasing throughput.
- Configured secure API consumption via Azure API Management and developed serverless architectures using Azure Functions, cutting operational costs.
- Engineered asynchronous communication by integrating Azure Storage Queues and Service Bus Queues, reducing system latency to and boosting message throughput.
- Leveraged AWS services such as EC2 and S3 for scalable hosting and storage solutions, integrating AWS Lambda functions to complement serverless architectures for event-driven processing.
- Enhanced user interface performance and interactivity through modular React component design and code-splitting

Oracle (Contract) — Dallas, TX

Full Stack Software Engineer

Aug 2020 – May 2021

- Developed robust web applications using ASP.NET MVC, Angular, and Java, enhancing UI responsiveness and achieving a user satisfaction improvement of 20%.
- Engineered secure SOAP and RESTful services with WCF for efficient XML/JSON data handling, reducing integration errors by 25% and ensuring smooth data exchange with external systems.
- Managed full-cycle software development—from requirements gathering through to post-deployment maintenance.

Cybernetic Entertainment — Irving, TX

Full Stack Software Engineer

May 2018 – July 2020

- Led the full lifecycle development of software products, from initial requirements analysis to successful deployment, achieving an operational efficiency boost of 30%.
- Integrated advanced analytics tools to monitor system performance, reducing resource consumption by 25% and improving key user experience metrics.
- Designed and implemented solutions leveraging core network protocols, including HTTP(S), TCP/IP, and UDP, to optimize data transmission and ensure reliable communication between distributed systems.
- Collaborated with infrastructure teams to troubleshoot and enhance network performance, reducing latency and improving overall system resilience.
- Integrated AWS CloudFormation for infrastructure automation and utilized AWS S3 for static asset management, enhancing overall system scalability and reliability.

Tkxel — Lahore, Pakistan

Software Engineer

May 2015 – June 2017

- Led a team in delivering AI-driven applications across Windows, Android, and iOS platforms using contemporary frameworks, resulting in a 35% increase in user engagement.
- Integrated modern analytic tools for process automation and data analytics, reducing manual intervention by 40% and accelerating data processing times by 50%.
- Facilitated SCRUM operations and provided mentorship to engineers, reducing the development cycle and ensuring high-impact project deliveries on schedule.

SES — Lahore, Pakistan

Software Engineer

Sep 2013 – May 2015

- Developed a Java Android application to track product deliveries, reducing fraud and improving inventory management by 30%.
- Leveraged technologies such as JSON, Google Maps, and ASP.NET to enhance functionality and scalability.

Education

Georgia Tech — Atlanta, Georgia

Masters in Computer Science

2022 - Expected Graduation 2026

- Specialization in Machine Learning

Government College University — Lahore, Pakistan

Bachelor of Science in Computer Science

2010 - 2014

- SQL, Algorithms, Operating Systems, Artificial Intelligence, Image Processing

Certifications

- **AWS Cloud Practitioner Certification** — Amazon (*Jan 2023*)
- **Machine Learning Certification** — Stanford University (*June 2017*)
- **Python for Everybody & Python Data Structures** — University of Michigan (*Sept 2020*)
- **Azure AI Fundamentals** — Microsoft (*Jan 2025*)

Technical Skills

Languages: C#, .NET Core, Python, Java, C, C++, JavaScript, HTML, CSS, React, Vue, Angular

AI & Machine Learning: Predictive Modeling, NLP, Data Preprocessing, Deep Learning

Technologies: Azure Cognitive Services, ML.NET, PyTorch, TensorFlow, ASP.NET, MVC, GitHub, REST APIs

Cloud Services: Azure (Azure AI, Azure Functions, Azure App Insights), AWS

Databases: MSSQL, SQLite, Oracle DB, NoSQL (MongoDB)

Software Development: Agile, OOP, Data Structures, Algorithms, DevOps (Azure DevOps, Docker)

Frameworks & Tools: Visual Studio, IntelliJ IDEA, JIRA, Android Studio, OpenCV

Key Achievements

Boosted department revenue by 60% through strategic technology implementations and client collaborations.

- Developed SDKs and APIs that introduced new revenue streams and enhanced product offerings.
- Improved product performance by 40% with advanced analytics and optimization tools.
- Successfully integrated speech recognition and natural language processing (NLP) technologies using Azure services.
- Led initiatives to adopt AI-driven automation, improving operational efficiency and scalability.