

SHAWAL SIDDIQUE

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PRINCIPAL SOFTWARE ENGINEER

Detail-oriented software engineer and architect with over 10 years of experience devising innovative and tailored solutions to meet ever-changing business requirements within diverse industries. Highlighted as C#/DotNet developer in implementation, design, testing and maintenance of software systems using .Net technology stack leveraging AWS services. Able to effectively self-manage during independent projects, as well as collaborate as part of a production team from concept through to development and delivery. Proficient in .Net, C#, TypeScript, AWS Serverless, Angular, React, REST, MS SQL, MySQL, MongoDB, and DynamoDB.

Solution Architect • Clean Code • Object Oriented Programming (OOP) • Problem Solving
Cloud Computing • AWS Serverless • Code Refactoring • Testing • Debugging • REST APIs

Languages: C#, JavaScript, TypeScript

Web: HTML, CSS, SCSS, Bootstrap, ReactJS

Web Services: RESTful, SOAP, Webhook

Web/App Servers: IIS, Apache

Frameworks: Dotnet Core, Asp.net, MVC, Entity Framework, Angular

Databases: MS SQL, MySql, MongoDB, DynamoDB

Design Patterns: Strategy, Observer, Decorator, Factory, Singleton, Command, Adapter, Facade, Template, Iterator, Composite, State and Proxy Pattern

SDLC: Agile, Kanban, Scrum

Tools: Visual Studio, Visual Studio Code, IntelliJ IDEA, MS SQL Management Studio, SVN, Git, PlasticSCM, REST Client, Postman, Jenkins, Microsoft Planner, Jira, Trello

Platforms: Windows, MacOS, Linux

PROFESSIONAL EXPERIENCE

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

Kaz Software Limited, Dhaka, Bangladesh • 12/2008 – 04/2024

A custom software company in Bangladesh providing technical solutions for clients.

Principal Software Engineer (05/2020 – 04/2024)

Solution architect for international projects

- Managed the development of the P1ston project using AWS serverless architecture, creating a scalable platform to simplify supplier order management and improve communication between Customers and Suppliers, regardless of ERP complexity.
- Merged standalone products into a unified Reganalytics platform using micro-frontend and microservice architecture, leveraging Angular, React, .NET, Node.js, and AWS API Gateway, enabling independent development and scalability to PaaS or SaaS. Contributed to product development and architecture design.
- Modernized TPA and WTA products by migrating from ASP.NET MVC to .NET 6 WebAPI, enabling both web and API-based content delivery, increasing flexibility and driving new revenue streams through API sales.
- Led the British Red Cross Alarm app development for disaster management, backend APIs leveraging .net web API in a quick, secured and manageable approach, allowing quick implementation in case of disaster.
- Architected multiple projects including HATIL, Arong, CCDB MIS, Unicef Education MIS, and Barzer, ensuring teams developed products with high-quality designs tailored to their specific needs.

Principal Software Engineer (07/2014 – 04/2020)

- Led the development of Encue by Octava product using ASP.NET WebAPI, AngularJS, AWS, Stripe Payments, and Xamarin for Android/iOS, enabling orchestras to manage location-based events, increasing audience engagement and sharing performance slides in real-time.
- Managed the development for Proposal Software/RocketDocs using C#, OData, CQRS, refactored legacy code into modular, reusable components, resulting in a stable, low-bug product with cost-effective maintenance.

- Supervised and contributed to DairyApplication development using ASP.NET WebAPI, AngularJS, AWS, Android/iOS, and IoT. The platform assists farmers in creating nutrition-based recipes to boost milk production, with a mobile app for recipe prep and an admin portal for farm management, recipe configuration, and reporting.
- Developed the Bromberg and Associates OPI Gateway application using C#, ASP.NET, Java for Android, and Twilio, enabling IVR-based translation services and three-way video calling.

Senior Software Engineer (01/2012 – 06/2014)

- Led the development of Transfer Pricing Analyzer, World Tax Analyzer, and Global Trade Analyzer tax/trade products using ASP.NET MVC, Knockout.js, AngularJS, and ExtJS to implement Single Page Applications (SPA). This significantly improved web application load times and created a more responsive user experience compared to industry standards.

Software Engineer (12/2008 – 01/2012)

- Worked in TPA (Transfer Pricing Analyzer) using ASP.NET, ExtJS to implement Single Page Applications (SPA). Contributed here to be one of the most performant feature developers by capturing the business domain very quickly.
- Worked on the Meridian file system server application and developed the AMFS driver by extending the NTFS driver code. Used Native C, C++, and Win DDK to fix bugs and ensure compatibility across various Windows versions, enabling broader compatibility and increasing the software's sales potential.

Technologies Used: C#, Dotnet, ASP.NET, React.js, Angular, JavaScript, TypeScript, Node, HTML5, AWS, Azure, Swagger, MS SQL, My SQL, MongoDB, DynamoDB.

BJIT Limited, Dhaka, Bangladesh • 05/2008 – 12/2008

Software development company.

Programmer

- Developed the DiskDefrag project in C/C++ with two new defragmentation algorithms. Created the DataRecovery project to restore deleted data from NTFS MFT, even when corrupted. Built the DataCleanser project to enhance file deletion speed for faster disk cleaning on large volumes.

Technologies Used: C/C++, NTFS, FAT32, Driver Development Toolkit.

Synchronous ICT, Dhaka, Bangladesh • 07/2007 – 04/2008

A research-based software development company focused on portable video streaming and surveillance services.

Programmer

Built SynchSwitch and SynchPhone using VC++, C/C++, OPAL, PWLIB so that user can make VOIP calls having clear voice compared to other available dialer clients.

Inspiration Software Limited, Dhaka, Bangladesh • 01/2007 – 06/2007

A software development company providing solutions for the internet and communication related services.

Programmer

Built iSoftDialer using VC++, C/C++, OPAL, PWLIB so that user can make VOIP calls having clear voice compared to other available dialer clients.

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 12/2026)

Maharishi International University, Fairfield, Iowa

Key Courses: Web Application Architecture, Modern Web Programming, Advanced Software Design

Bachelor of Science in Computer Engineering

American International University Bangladesh, Dhaka, Bangladesh (12/2006)

CERTIFICATIONS

[AWS Certified Solutions Architect – Associate Amazon Web Services \(AWS\)](#) (05/2021)

[AWS Partner: Accreditation \(Technical\) Amazon Web Services \(AWS\)](#) (03/2021)