

Ashis Barai

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CAREER SUMMARY

- I am 7 years Full-Stack Senior Software Engineer with extensive experience software developing, designing and maintaining systems on web using **ASP.NET Core, ASP.NET, Web API, C#, Entity Framework 6, Dapper, ADO.Net, SQL Server 2008-2016, Oracle 12c, JavaScript, jQuery, Angular, Backbone JS, Underscore JS, Lodash, Timeline JS, CSS, HTML, Kendo UI, Windows Service, Telerik, GIT.**
- Working in client facing roles and as a Software Engineer of small or large multi-discipline development teams for Business Solution (Email Marketing, Social Marketing, Contact Marketing, and Template Design) and Banking related software development.
- Experience on micro service based design.
- Experience on central authentication and authorization system using Identity Server 4.
- Experience on Business tools like Oracle Data Integrator 12c and Microsoft Power BI.
- Knowledge on Relational Data Warehouse Setup, Development, and Management using Oracle Data Integrator 12c.
- Hands on experience with agile software processes.
- Experience in writing clean code following **SOLID** principle.
- Experience in developing software using several design pattern like Factory pattern, Repository pattern, Unit of Work Pattern, Builder pattern, Singleton pattern, Dependency Injection pattern etc.
- Experience on using several Dependency Injection tools like Autofac and Unity.
- Experience on integrating several social API such as Facebook API, Twitter API and LinkedIn API.
- Experience on AWS.
- Experience on reporting tools like Telerik.
- Experience in Unit Testing and Load Testing.

EDUCATION

Dhaka University of Engineering and Technology, Gazipur

BSc. in Computer Science and Engineering, CGPA 3.79/4.00 (2nd Place)

WORK EXPERIENCES

Designation: Senior Software Engineer

Period: September, 2020 – Continuing.

Organization: Blue Bomb Media Limited

Website: <https://bluebombmedia.com/>

Company Overview:

Blue Bomb Media Limited is a UK based company and office located in London. It designing and developing innovative digital solutions for its clients.

My Responsibilities:

- Designing and developing web based business solution based on client requirements.
- Determining the lack of performance in existing applications, diagnosis using different tools and designing solutions for performance optimization.
- Conduct meeting with the client for requirement analysis, time estimation, project architecture, and usages tools.
- My primary responsibilities as Senior Software Engineer, Designing the architecture and flow diagrams for the web application, Design database using MS SQL Server 2008, Coding, Code review, Database configuration and hosting the application at remote site.
- Design the application based on micro service and developed separate and central authentication and authorization system.
- Solving several design problem using design patterns.
- Design database scheme for MS SQL Server 2008 database; programmed database SQL query using Dapper.
- Design and development client site JavaScript code using several patterns such as Module pattern, MVC pattern, Singleton pattern etc.

Designation: Senior Software Engineer

Period: March, 2018 – September 2018.

Organization: Brain Station-23 LTD, Dhaka, Bangladesh

Website: <http://www.brainstation-23.com>

Company Overview:

Brain station 23 is a global name which has spread out to Netherlands, Denmark, Switzerland, Canada, UK, USA, Israel and the Middle East all along. From working with startups to developing enterprise solutions and managing business process successfully, it helps clients with customized IT solutions to minimize their IT headaches and keep their IT operations run effectively.

My Responsibilities:

- Analyzing, designing and developing web applications following the software development lifecycle.
- Determining the lack of performance in existing applications, diagnosis using different tools and designing solutions for performance optimization.
- Conduct daily meeting with the foreign client for requirement analysis, time estimation, project architecture, and usages tools.
- My primary responsibilities as Senior Software Engineer, Designing the architecture and flow diagrams for the web application, Design database using MS SQL Server 2008, Coding, Code review, Database configuration and hosting the application at remote site.
- Solving several design problem using design patterns.
- Design database scheme for MS SQL Server 2008 database; programmed database SQL query using Entity Framework 6 and Dapper.

- Design and development client site JavaScript code using several patterns such as Module pattern, MVC pattern, Singleton pattern etc.
- Write Angular JS code for Single Page Application management.

Designation: Software Engineer

Period: May, 2014 –March, 2018.

Organization: Brain Station-23 LTD, Dhaka, Bangladesh

My Responsibilities:

- My primary responsibilities as Software Engineer, wrote internet based C# application for Contact Management, Email Marketing, Social Media, Digital Printing and Web Form.
- Wrote C# clean code based on SOLID principles and other design patterns.
- Designed API using ASP.NET Web API 2.
- Wrote database SQL query using Entity Framework 6 and Dapper.
- Wrote front-end JavaScript (Angular2, jQuery, BackboneJs) code to allow clients to securely communicate via the internet.
- Designed and developed social integration (Message posting, Image and Video uploading, Insight data reading) with Facebook API, Twitter API and LinkedIn API.

TECHNICAL SKILLS

- **Languages:** C#, C++, Java, JavaScript, SQL.
- **Internet Technology Experience:** ASP.NET Core, ASP.NET, MVC, Web API, HTML and CSS.
- **Databases:** MS SQL Server 2008, 2016, MySQL, Oracle 12c.
- **ORMs:** Entity Framework 6, Dapper.
- **JavaScript Libraries and Frameworks:** Angular, jQuery, BackboneJS, Bootstrap, UnderscoreJs.
- **API:** Facebook, Twitter, LinkedIn, AWS.

PROJECTS

1. Application: Hub System (<https://hub.mis247.com/>)

Hub is a full business solution and file storage system.

Client Location: UK.

Role: Senior Software Engineer

Project Description:

Hub provides full business solution, file storage system using AWS, customized widget design, reporting.

Development Tools:

The application was developed using the following technologies:

- ASP.NET Core, ASP.NET MVC, C#

- Dapper
- Windows Services and Task Schedulers
- Html5, CSS, JavaScript, jQuery1.8, jQuery Ajax, jQuery UI, Kendo UI, PDFSharp
- API: AWS
- Relational database (SQL Server 2014)

My Responsibilities:

- Develop and deliver several features to the client in timely manner.
- Communicate with client for understanding requirements.
- Refactor legacy code using several tools and following SOLID principles.
- Wrote internet based C# application for business solution, file storage, custom widget design.
- Wrote C# clean code based on SOLID principles and other design patterns.
- Designed API using ASP.NET Core 3.1.
- Write database SQL query using Dapper.
- Write front-end JavaScript code to allow clients to securely communicate via the internet.

2. Application: Splash360

Splash360 is a Customer Relationship Management (CRM) system.

Client Location: USA.

Role: Software Engineer

Project Description:

Splash360 is a client for CRM application serving large clients. The application contains various services, the most important features are - importing contacts from excel, csv and text files, email campaigns, online template design, online postcard design and export for digital printing, post to social media, advanced report for activity, emails and social posts, contact management and event reminder etc.

Development Tools:

The application was developed using the following technologies:

- .NET Framework 4.5, ASP.NET MVC 4, ASP.NET Web API, C#
- Entity Framework 6, Dapper
- Windows Services and Task Schedulers
- Html5, CSS, JavaScript, jQuery1.8, jQuery Ajax, BackboneJS, UnderscoreJS, jQuery UI, CKEditor, DhtmlXGrid, DhtmlDataView, Angular JS
- Third party: HtmlCapture, GhostScript, PDFSharp, HTML AgilityPack
- API: Facebook, Twitter, LinkedIn, Leadsplease Datawidget
- Relational database (SQL Server 2008 R2)
- Load testing using ANTS by redgate and Visual Studio Team System

My Responsibilities:

- Develop and deliver several features to the client in timely manner.

- Communicate with client for understanding requirements.
- Developing software following Agile software development.
- Refactor legacy code using several tools and following SOLID principles.
- Wrote internet based C# application for Contact Management, Email Marketing, Social Media, Digital Printing and Web Form.
- Wrote C# clean code based on SOLID principles and other design patterns.
- Designed API using ASP.NET Web API 2.
- Write database SQL query using Entity Framework 6 and Dapper.
- Write front-end JavaScript (Angular2, jQuery, BackboneJs) code to allow clients to securely communicate via the internet.
- Designed and developed social integration (Message posting, Image and Video uploading, Insight data reading) with Facebook API, Twitter API and LinkedIn API.

3. Application: Brac Bank Business Intelligence

This project is developed for Brac Bank Limited to create several report from their existing customer information and transaction information.

Client Location: Bangladesh.

Role: Senior Software Engineer.

Project Description:

This is a web based application for Brac Bank Limited to design and creating custom reports. It accesses their exiting Oracle 12c Database and get related information and prepared report for client. The application uses Oracle ODI 12c for developing Data Warehouse for reporting. We also create several dimensions and cubes for creating report efficiently.

Development Tools:

The application was developed using the following technologies:

- C#, ASP.NET MVC, ASP.NET Web API
- Oracle Database 12c and Oracle Data Integrator 12c.
- Microsoft Power BI
- Dapper (Micro ORM)
- Html5, CSS, JavaScript, jQuery, Angular JS.
- Third party: DevExpress(Reporting tools) , PDFSharp.

My Responsibilities:

- Managing Big Data creating Dimension and Cube in Data Warehouse.
- Designing and Developing Data Warehouse using Oracle Data Integrator 12c.
- Designing and developing web applications following the software development lifecycle.
- Developing Active Directory based Authentication and Role based Authorization.
- Designing Web based Interface for designing various reports.
- Developing Dashboard using Power BI.

- Writing SQL query using ORM like Dapper.
- Writing C# clean code based on SOLID principles and other design patterns.
- Writing front-end JavaScript (Angular2, jQuery) code to allow clients to securely communicate via the internet.
- Designing various report using DevExpress and PDFSharp.

4. MIS – MIS is a Business Intelligence Software.

Client Location: UK.

Role: Senior Software Engineer

Project Description:

This project is developed for reporting from their existing business data. The application uses Telerik for creating reports. This web based application contains various reports in pdf, xls and csv format.

Development Tools:

The application was developed using the following technologies:

- ASP.NET MVC, ASP.NET Web API, C#
- Entity Framework 6, Dapper
- Html5, CSS, JavaScript, jQuery, UnderscoreJS, jQuery UI, Angular JS
- Third party: PDFSharp, Telerik.
- API: Amazon Web Services.
- Relational database: SQL Server 2014

My Responsibilities:

- Develop several futures based on client requirement and timely delivered it based on time estimation.
- Communicate with the foreign client for understanding requirements.
- Analyzing, designing and developing web applications following the software development lifecycle.
- Determining the lack of performance in existing applications, diagnosis using different tools and designing solutions for performance optimization.
- Write C# clean code based on SOLID principles and other design patterns.
- Refactor legacy code using several principles and design patterns.
- Design API using ASP.NET Web API 2.
- Design and develop reports using Telerik.
- Design database scheme for MS SQL Server 2014 database; programmed database sql query using Entity Framework 6 and Dapper.
- Write front-end JavaScript (Angular2, jQuery) code to allow clients to securely communicate via the internet.

5. PDF Library - PDF Library is an Online file store Software.

Client Location: UK.

Role: Senior Software Engineer

Project Description:

This project is developed for storing files in several format and sell it to the customer and create several reports. Also shows company timeline.

Development Tools:

The application was developed using the following technologies:

- ASP.NET MVC, ASP.NET Web API, C#
- Entity Framework 6, Dapper
- Html5, CSS, JavaScript, jQuery, UnderscoreJS, jQuery UI, Angular JS, Timeline JS
- API: Amazon Web Services.
- Relational database: SQL Server 2014

My Responsibilities:

- Design and development new features and fixing bugs.
- Conduct meeting with the foreign client for requirements analysis.
- Take design decision for robust software architecture.
- Fixing existing bugs and refactor existing legacy codes using several principles and design patterns.
- Determining the lack of performance in existing applications, diagnosis using different tools and designing solutions for performance optimization.
- Write C# well-structured and readable code following SOLID principles.
- Design and develop API using ASP.NET Web API 2.
- Design relational database schema architecture; write database SQL query using Entity Framework 6 and Dapper.
- Write Angular JS and jQuery code for client site management.

6. **MDA+ -** This project is a health agency management software for MDA+ the world's leading nonprofit health agency.

Client Location: USA.

Role: Software Engineer

Project Description:

MD+ is a project for customer management and various hierarchy. The application contains various services, the most important features are - importing contacts from excel, csv and text files, various events, Business Intelligence, reporting.

Development Tools:

The application was developed using the following technologies:

- ASP.NET MVC, ASP.NET Web API, C#
- Entity Framework 6, Dapper

- Windows Services and Task Schedulers
- Html5, CSS, JavaScript, jQuery1.8, jQuery Ajax, BackboneJS, UnderscoreJS, jQuery UI, CKEditor, DhtmlXGrid
- Third party: HtmlCapture, PDFSharp
- Relational database (SQL Server 2008 R2)
- Load testing using ANTS by redgate and Visual Studio Team System

My Responsibilities:

- Develop several futures based on client requirement and timely delivered it based on time estimation.
- Communicate with client for understanding requirements.
- Analyzing, designing and developing web applications following the software development lifecycle.
- Improvement of SQL query performance.
- Write internet based C# application for Customer Management, Reporting, and Event Management.
- Write C# clean code based on SOLID principles and other design patterns.
- Design API using ASP.NET Web API 2.
- Design database scheme for MS SQL Server 2008 database; programmed database sql query using Entity Framework 6 and Dapper.
- Write front-end JavaScript (jQuery, BackboneJs) code to allow clients to securely communicate via the internet.

Thesis Work

- Matrix Chain Multiplication Based On Optimal Parenthesization in Map-Reduce.

TRAININGS

- Training in ACM problem solving from BAPS-BUBT National Programming Camp-2013.

PARTICIPATED PROGRAMMING CONTESTS DETAILS

- ACM ICPC 2011, 2012 and 2013(Dhaka Regional)
- IUBAT Inter University Programming Contest'2013
- Islamic University(IUT) Programming Contest'2012
- Quazi Azher Ali International Programming Contest'2012
- Daffodil Inter University Programming Contest' 2011
- DUET Inter University Programming Contest'2010 (Obtained 2nd Position)

CO-CURRICULAR ACTIVITIES

- President of DUET Computer Society (2012-2013)
- Solving Programming Problems at different Online Judge website (Solved 250+ problems at UVA online site) such as UVA, LightOJ and TJU.

PERSONAL DETAILS

- Father's Name : Ashutosh Barai
- Mother's Name : Manorama Barai
- Date of Birth : 5th March, 1988
- Nationality : Bangladeshi

I, hereby, declare that the information stated above is correct to the best of my concern.

Date: 22-01-2021

Yours Faithfully



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Ashis Barai