

## ABDULLAH NOMAN

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### C# Developer

Skilled software developer with around five years developing high-quality web applications in the software industry, enacting all phases of the Software Development Life Cycle to deliver solutions. Skilled in leading back-end projects using object-oriented programming, design patterns, in-memory caching, corn, and integrating third-party APIs. Developed some of the complex modules of a financial budgeting solution for TAFE NSW. Moreover, designed and developed several web API applications from scratch. Currently taking distance education courses to complete a **master's degree in computer science** (Available for full-time, W-2 employment).

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Object-Oriented Programming • .NET Technologies • Clean Architecture • Design Patterns  
Distributed Systems • Algorithms • Data Structures & Collections • System Design

**Languages:** C#, Java

**Web:** JavaScript, jQuery, Angular

**Web Services:** REST API

**Web/App Servers:** IIS

**Frameworks:** .NET Core, ASP .NET MVC, Entity Framework, Dapper, NUnit, OpendID/OAuth

**Databases:** MS SQL, MongoDB, DynamoDB

**Design Patterns:** Strategy, State, Prototype, Decorator, Builder, Façade, Mediator, Observer, Command, Iterator etc.

**Tools:** Visual Studio, Rider, VS Code, Postman, JIRA, Zoho, Git, SVN, StarUML

**Platforms:** Windows, Linux

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### PROFESSIONAL EXPERIENCES

#### OneSource Virtual, Inc, Texas, USA

August 2023 - present

Leading Business Process as a Service Provider for Workday Developments.

#### Software Developer

Develop web applications using C#, .NET, .NET Core, ASP.NET MVC, REST, EF, XML, JS, jQuery, Kendo UI, MSSQL, Hangfire, Azure DevOps, and Workday etc.

- Investigate and analyze existing code flow to identify bottlenecks in the data retrieval and processing.
- Refactoring legacy codebase and enhancing system performance through strategic solutions.
- Providing support and expertise to team members, particularly in addressing technical challenges and implementing best practices
- Collaborating with the team to develop and maintain applications that differentiate the business.
- Implemented and optimized complex stored procedures, elimination of deadlocks, performance improvement.
- Implemented parallel data retrieval techniques and developed concurrent report generation methods.

**Technologies Used:** C#, .NET, .NET Core, ASP .NET MVC, REST, Entity Frameworks, JS, jQuery, Kendo UI, MS SQL, Hangfire, Identity Server 4, Azure DevOps, Octopus.

#### STREAMS TECH LTD, Dhaka, Bangladesh

Oct 2021- Oct 2022

Product and Service based software development company.

#### Software Engineer

Designed and developed APIs using .NET Core and MS SQL along with US-based client's team.

- Developed web APIs for an in-house time tracking and activity monitoring data analytics platform using .NET Core 3.1.
- Modified existing complex metrics and developed new custom metrics.
- Implemented and optimized complex stored procedures and functions using T-SQL.
- Collaborated with front-end developer and did research on existing system security pitfalls.
- Communicated with clients to translate business requirements to technical specifications.
- Performed R&D on new tools and technologies. Reviewed code and mentored team members.
- Optimized performance and memory, and improved scalability by refactoring codebase.

**Technologies Used:** C#, .NET Core, ASP .NET MVC, Entity Framework, Dapper, NUnit, MS SQL, Bitbucket, JIRA, Confluence, Visual Studio, IIS

### OSCILLOSOFT PTY LTD, Dhaka, Bangladesh

Jan 2019- Oct 2021

IT consulting firm specializing in Zoho platform for business and governmental clients.

#### Senior Software Engineer

2021

Designed and developed Zoho2nInsight integration API from scratch using .NET Core 3.1.

- Implemented Specialized Institute Planner (SIP) using DDD following Modular Monolith, with complex dynamic permission tree.
- Developed AWS Lambda for Zoho2nXero using NodeJS and serverless framework, in an agile setting.
- Wrote complex queries and stored procedures using MS SQL.
- Applied in-memory caching, automatic integration using Quartz, and inbox-outbox design pattern.
- Performed unit testing with NUnit. Broke down tasks into user stories and wrote reusable technical documentation.

**Technologies Used:** C#, .NET Core, Entity Framework, Dapper, MediatR, Swagger, Polly, Quartz, FluentValidation, NUnit, DDD, CQRS, Autofac, MS SQL, NodeJS, DynamoDB, JWT, Zoho, Git

#### Software Engineer (OSCILLOSOFT PTY LTD)

2019-2020

Made key contributions to web development using .NET and MS SQL.

- Developed capacity planning, capacity management, and tracking modules in ASP .NET MVC.
- Optimized performance using Cache Aside pattern and adjustment to execute MDX query through ADO .NET instead of linked server.
- Formatted hierarchical data representation using LINQ from SP.
- Tuned performance of several complex stored procedures and SQL queries.
- Converted triggers into CDC. Wrote workflow diagrams and technical documentation.

**Technologies Used:** C#, ASP .NET MVC, Entity Framework, JavaScript, jQuery, Kendo Grid, MS SQL, SSIS, MS BI, Visual Studio, JIRA, Git, SVN

## ACADEMIC PROJECTS

### Maharishi International University, Fairfield, Iowa (2023):

- **Mealigram:** Modern Web Application course. App imitates Instagram, allowing users to create and post recipes where other users can view, save, comment, like, and reply to recipe posts, and delete own recipes. **Technologies Used:** Express, NodeJS, MongoDB, Angular CLI
- **Personal Portfolio:** Web Application course. The application displays all personal information and assignments, with JavaScript and web-based code validation. **Technologies Used:** Express, NodeJS, jQuery, Mocha, HTML5, CSS3
- **Library Management System:** This Desktop Project manages library books and members, with role-specific modules, overdue book tracking, and report generation. **Technologies Used:** Java, Swing

- **Big Data Project:** Applied different MapReduce algorithms like Pair, Stripe, and Inverter Approach, with and without in-mapper combining techniques to calculate count, average, and relative frequency, and document findings. Implemented bootstrapping technique to calculate average, variance, and standard deviation. **Technologies Used:** *Java, Hadoop, Spark, Scala*

## EDUCATION

### **Master of Science in Computer Science**

*(In progress; expected completion June 2024)*

Maharishi International University – Fairfield, Iowa

**Key Courses:** *Web Application; Modern Web Application; Algorithms; Big Data; Modern Programming Practices*

### **Bachelor of Engineering in Computer Science & Telecommunications (2016)**

Noakhali Science & Technology University – Noakhali, Bangladesh