

Ashok Balakumar

Full Stack Software Developer

EXPERIENCE

Anaqua, Boston, MA

Consulting Software Engineer

February 2021 – Present

- Provided mentorship and documented HTML and CSS style guides for conversion of entire presentation layer of acquired Quantify IP software products (Estimator Online and Portfolio Estimator) to Anaqua styling standards.
- Translated VB6 code to VB.NET during rewriting of legacy Global Estimator and Portfolio Estimator desktop applications.
- Incorporated several features into Estimator Online reports including a zoom cropper and pdf generator using open-source libraries such as Pechkin HTML to PDF and ZoomCropper.js to improve user experience when generating report estimates for print or download.
- Leveraged the power of AJAX and Bootstrap components to provide a rich look and feel while minimizing server post backs, thus boosting performance of several application-specific features.
- Enhanced client and server-side validation and error handling across all ASP web pages of Estimator Online.
- Debugged and Tested code in ASP and VB.NET while using Tortoise SVN as a source control tool.
- Exclusively responsible for developing CSS selectors for UI web control design and layout across the entire application.

Dassault Systèmes, Waltham, MA

Consulting Software Engineer

November 2019 – January 2021

- Transformed UI and scalability of proprietary Post-Split configuration WinForms application to an IIS Web Forms application incorporating Bootstrap and AJAX Control Toolkit for a superior look and feel.
- Rewrote logic for much of the C# source code in Post-Split configuration tool to correct errors in product builds following periodic Stream Splits.
- Implemented UI dashboards and console applications to streamline 3DS media uploads that ran off a daily schedule.

Triumvirate Environmental, Somerville, MA

Software Developer

March 2018 – November 2019

- Researched, transformed, and customized existing Entity Framework platform from EDMX to Code First, across all major projects, to comply with EF7 and EF Core support.
- Transformed Triumvirate's paper-intensive manifest submission process by developing an e-Manifest API to integrate with US EPA's web API thus reducing submission costs, minimizing systemic errors and providing real time feedback.
- Responsible for full-stack development of several workflows involving multiple stages of approval.
- Adopted Dependency Injection with StructureMap in ASP.NET MVC for principled Object-Oriented programming.
- Applied Singleton design pattern across application interface layers during feature development.
- Displayed competence in all stages of the Software Development Life Cycle.

Techbiz Africa, Nairobi, Kenya

Web Application Developer

March 2016 – October 2017

- Clients included reputed multinationals headquartered in Kenya, including H-Young & Company (<http://hyoung.com>) and Craft Silicon (<https://www.craftsilicon.com>).
- Developed "Hello Kenyan" web portal in ASP.NET web forms to provide a platform for public experience during 2016 elections. This was used by the Government of Kenya to monitor regions prone to violence during post-election strife.
- Enhanced performance of XML reports in Visual Studio for major financial institutions including Barclays and Prime Bank through Craft Silicon's Bankers realm electronic fund transfer (BREFT) channels system.
- Enhanced Data Access layer resolving CRUD actions from ADO.NET to LINQ thus incorporating lazy loading and separating business logic from data access by limiting stored procedure calls.
- Bug fixes and user-interface enhancements.

Benefits Management Group, Oak Brook, IL

Web Application Developer

January 2014 - December 2015

- Created the SQL stored procedure that ensured data compliance with new Employer provided 1095-C insurance coverage form.
- Saved operational costs by utilizing open-source C# libraries to automate transfer of union files between a shared network drive and remote client servers via SFTP.
- Developed and implemented the user interface for a demo application used by company CIO to attract prospective clients.
- Generated and validated application reports using SQL Server Reporting Services (SSRS).
- Gathered knowledge on the company's domain of operation and business requirements.

Greater Boston Area

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SKILLS

Languages: HTML, CSS, SASS, JavaScript, jQuery, C#, SSRS

Ruby, SQL, N1QL, C, Java, Visual Basic, MATLAB

Web Development: ASP, ASP.NET Core, ASP.NET MVC, ASP.NET Web Forms, Angular, C#.NET, VB.NET, AJAX, Telerik UI, Azure DevOps Server, Perforce, Tortoise SVN, SOAP, REST, NPM, React, Redux, Node, Ruby on Rails, Express

Methodologies: Agile Scrum, Kanban

Database: MS SQL server, Stored Procedures, Views, Triggers, Entity Framework, ADO.NET, PostgreSQL, MongoDB, Mongoose.js, Couchbase

Applications: MS Visual Studio, MS Office, MS SQL Server Reporting Services, MS SQL Server Integration Services, Beacon Spyglass, Redgate, Windows Task Scheduler, JIRA, Confluence, FogBugz

CERTIFICATIONS

General Assembly:

Web Development Immersive Certificate of Completion

Coursera Course Certificates:

Java Programming: Solving problems with Software

Programming foundations with JavaScript, HTML and CSS

Front-End Web Development with React

EDUCATION

The University of Texas Arlington, Arlington, TX

BSc Electrical Engineering

Overall GPA: 3.44/4.00

Inducted into Tau Beta Pi engineering honor society, Eta Kappa Nu electrical and computer engineering honor society, and Golden Key International honor society for scholastic merit.