

# Ashok Balakumar

Full Stack Software Developer

## EXPERIENCE

### **Sprague Energy**, Portsmouth, NH

*Senior Developer*

July 2022 – Present

- Constructed and executed SQL queries and Stored Procedures against proprietary Safari and NatGas relational database entities in order to extract and clean up data in preparation for nGenue billing system integration.
- Incorporated new fields and hyperlinks to dx-data-grids across NatGas presentation layer and wired to back-end for data retrieval and upserts.
- Fixed consumer facing issues by debugging logic across all layers of NatGas application.

### **Anaqua**, Boston, MA

*Consulting Software Engineer*

February 2021 – July 2022

- 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 C#.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 C#.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.

Greater Boston Area

(857) 930-8110

[ashok.balakumar@gmail.com](mailto:ashok.balakumar@gmail.com)

[www.linkedin.com/in/ashokbalakumar](http://www.linkedin.com/in/ashokbalakumar)

## 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.

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## EXPERIENCE (CONT.)

### 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.

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