

# Ashok Balakumar

Full Stack Software Developer

## EXPERIENCE

**Triumvirate Environmental**, Somerville, MA

*Software Developer*

March 2018 - Present

- Engaged in full stack development of enterprise scale web and desktop applications, primarily for internal clients, in an Agile Scrum team.
- Adopted Dependency Injection with StructureMap in ASP.NET MVC for principled Object-Oriented programming.
- Acquired knowledge of abstract design patterns such as Factory Method, Singleton and Strategy, and advantages of each in facilitating re-usability of code.
- Employed coding best practices, and refactoring of code, ensuring organization and legibility.
- Displayed competence in all stages of the Software Development Life Cycle.
- Developed Triumvirate's e-Manifest API to integrate with US EPA's web API via RESTful requests, transitioning from a paper-intensive process to an electronic system, and therefore complying with federal requirements.

Achievements include:

1. Cost reductions of up to \$10 for each manifest submitted via the e-Manifest system.
2. Immediate e-Mail notification of discrepancies to Triumvirate's compliance teams uploading to e-manifest in 4 states.
3. Improved overall effectiveness in monitoring waste shipments and resolving data issues.
4. Solely responsible for API maintenance, keeping up to date with developer calls and incorporating latest e-Manifest changes.

**Techbiz Africa**, Nairobi, Kenya

*Web Application Developer (Contractor)*

April 2016 - September 2017

- Developed Craft Silicon's "Hello Kenyan" web portal for use by members of the public and the Kenyan government during election strife.
- Improvised several reports in SSRS and Visual Studio for major banks and financial institutions (including Barclays, Prime bank) through Craft Silicon's proprietary Banker's realm electronic fund transfer (BREFT) channels platform.
- Assisted H. Young & Co. development manager in visual basic source code correction of the firm's inventory management system built in VB.NET.

**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.
- Utilized open source C# libraries to automate operations involving the transfer of union files between a shared network drive and remote client servers via a SFTP site, preventing the need to purchase expensive SFTP software.
- Developed and implemented the user interface for a demo application used by company CIO to attract prospective clients.
- Generated and validated application reports using SSRS.

Greater Boston Area

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[github.com/axb6452](https://github.com/axb6452)

## SKILLS

Languages: HTML, CSS, SASS, JavaScript, TypeScript, jQuery, C#, Ruby, SQL, N1QL, C, Java, Visual Basic, MATLAB

**Web Development:** Ruby on Rails, Express.js, React.js, Visual Studio, ASP.NET, AJAX, Telerik UI

**Database:** MS SQL server, Stored Procedures, Views, Triggers, 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

## CERTIFICATIONS

**General Assembly:**

WDI Certificate of Completion

**Duke University:**

Java Programming: Arrays, Lists and Structured Data (In progress)

Java Programming: Solving problems with software

## EDUCATION

**The University of Texas**  
Arlington, Arlington, TX

BSc Electrical Engineering

Overall GPA: 3.44/4.00

Inducted into Tau Beta Pi, Eta Kappa Nu and Golden Key International honor societies for scholastic merit.