Ashok Balakumar

Full Stack Software Developer

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EXPERIENCE

Triumvirate Environmental, Somerville, MA
Software Developer

March 2018 - Present

- Engaged in full stack development of enterprise 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 EPA's web API via RESTful requests, transitioning seamlessly from a paper-intensive process to an electronic system, and therefore complying with federal requirements. Achievements include:
  1. Cost savings 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.

Craft Silicon, Nairobi, Kenya
Web Application Developer

April 2017 - September 2017

- Involved in Banker's realm electronic fund transfer (BREFT) channels development for banks/financial institutions.
- Developed "Hello Kenyan" peace portal for use by members of the public and the Kenyan government during election strife.
- Improved secure access of Barclays scoring engine report data.
- Optimized C# code for I&M bank client, resulting in faster page loading and processing.

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.

SKILLS

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

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

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

Applications: 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:
Solving problems with software
Programming Foundations with JavaScript, HTML and CSS

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 honor societies for scholastic merit.