

Sean Astrakhan
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*A full-stack developer who values learning
and collaboration over comfort and
predictability.*

SKILLS

C#/.Net PHP Node.JS	React Angular Handlebars	SQL SSIS SSRS Power BI	CRM Wordpress SharePoint Azure
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PROFESSIONAL EXPERIENCE

Mind Over Machines, Maryland January 2015 – Present
Consultant

Served as Tech Lead and Engineer on a variety of clients including federal organizations, national non-profit organizations, and companies in the health, education and financial sectors. Consulted organizational leaders in identifying the ideal technical solution to meet their business goals and served on technical teams as team lead and engineer. Projects include:

Middleware Application integration with Dynamics CRM

Developed middleware application to automate processes that coalesce three different APIs - Survey Monkey, Dynamics CRM, SharePoint.

- Utilized Dependency Injection and Inversion of Control design pattern.
- Implemented Unit Tests using Moq framework.
- Leveraged Entity Framework for data layer and Newtonsoft package as JSON to SQL ORM.
- Worked with stakeholders to identify requirements and consulted on pros and cons of each API service.
- Maintained ongoing updates and service requests

Donor Management Mobile Application

Architected mobile application for an Arts Foundation that wanted to offer its highest donors a phone app to manage promotions to local restaurant and entertainment areas.

- Developed using Angular JS front-end and ColdFusion backend utilizing MS SQL Server
- Built on Apache Cordova (Phone Gap) platform to allow seamless distribution across platforms
- Designed with material design principles in mind to deliver a sleek and modern user interface to attract higher user-base
- Oversaw distribution through Google Play and Apple stores

Data Migration ETL using SSIS

Migrated entire company's CRM data from Goldmine to on-premise Dynamics CRM with Outlook using SSIS and Kingswaysoft to create asynchronous ETL application.

- Collaborated asynchronous .Net ETL application that leveraged SSIS to migrate ~500K emails
- Leveraged Kingswaysoft SSIS plugin to assist in data-mapping
- Configured Outlook to sync with Dynamics CRM and be optimized for duplicate detection
- Adapted existing Goldmine data model to Dynamics CRM to maintain company business logic complete with development of entities, workflows, views and dashboards
- Developed custom plugins to increase email tracking visibility and record ownership
- Collaborated with Network administrators to debug deployment and connectivity issues
- Conducted training program on interfacing Dynamics with Outlook

Health Savings Calculator

Collaborated on building a health care calculator that allows users to calculate their health care costs and view charts that display their health savings.

- Implemented a HandleBars JS for templating and JS graphing library to dynamically display charts to the user
- Stored Calculator configurations in MySQL database.
- Interfaced with existing MySQL database and used PHP to retrieve relevant data.
- Integrated with company's existing Word Press site

Membership Directory with .Net Core

Collaborated on a .Net Core application to assist an investment company in showcasing their members.

- Utilized Razor views and JQuery Datatables for user interaction.
- Implemented 'Repository Pattern' architecture
- Utilized Entity Framework Core as ORM
- Maintained deployment cycle leveraging Visual Studio with Azure deployment tools.
- Advised on Azure hosting possibilities for scalability, price and security.

Dynamics 365 CRM Integration

Implemented multiple Dynamics CRM instances with Office 365 application integration across five departments including SSRS reports and javascript to synchronize mapping API.

- Developed custom entities, Javascript, workflows, and plugins to embed SSRS reports in dashboard views and handle business logic beyond default ability of CRM instance
- Leveraged Javascript Es6 syntax to write maintainable and concise form scripts to calculate time-zones dynamically for a given address utilizing Bing Maps API.
- Consulted on the pros and cons of implementing a custom versus "out-of-the-box" solution in areas such as Microsoft Flow and Power BI as opposed to standard workflows and charts
- Integrated external Dynamics applications including SharePoint, OneDrive and Voice-of-the-Customer
- Maintained upgrades across versions from Dynamics 2015 – Dynamics 365.

COMMUNITY ENGAGEMENT

Code 4 Baltimore

July 2016 – Present

Tech Lead

Volunteered as technical advisor and lead developer on open source projects focused on "open government, open data, great design, and social good in Baltimore."

Idea Hub - React & Node

Developed a SPA application to allow city residents to pitch their ideas for technological solutions that could benefit the city.

- Architected front-end application using React and Redux.
- Leveraged Redux containers to minimize code and simplify operations for future developers.
- Implemented Sagas Pattern to handle async operations
- Oversaw development of back-end using Node.JS
- Worked with city residents and local government stakeholders to identify requirements
- Functionality allowed users to vote on ideas and administrators to segment voters based on skill-set to extrapolate who could lead their ideas to completion

Baltimore Dance Crews Project

January 2017 - Present

Dancer, Associate Developer

Aided in organization's data management and CRM needs to help more people hear about their incredible mission - initiate and strengthen relationships through hip hop dance to aid students from school to career.

Power Bi Dashboard for nonprofit

Configured Power BI dashboard for a youth empowerment nonprofit to showcase data patterns in student performance, demographics, and volunteer retention.

- Implemented ESRI location mapping tool to pinpoint target neighborhoods that were not served.
- Created training program for application use and user buy-in.
- Consulted in payment plans and best practices in embedding maps for public use.
- Facilitated migration from storing data in excel to storing in Salesforce for eventual connection to Power BI.

EDUCATION

University of Maryland Baltimore County, Baltimore, MD

January 2012 – Present

- Obtaining Masters in TESOL (Teaching English to Speakers of Other Languages)
- Psi Chi and Sigma Delta Pi Honor Society Member

Eastern Michigan University, Ypsilanti, MI

September 2005-March 2010

- Bachelor of Science, Double Major in Psychology and Spanish
- Obtained Secondary Teaching Certificate

- GPA 3.6/4.00, graduated Dean's List

ADDITIONAL INFORMATION

Certifications: Architecting Azure Solutions 70-535

Human Languages: Fluent Spanish, Conversational Russian, Survival Mandarin

Travel: China, Russia, Mexico, Spain, Israel Amazon, Colombia, Costa Rica, Cuba, England, France, Germany