

## Sean Astrakhan

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[www.seanstech.life](http://www.seanstech.life)

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

## SKILLS

C#/.NET PHP Python/Django	React/Redux Angular Handlebars	SQL SSIS Power BI	Azure CRM Wordpress
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## PROFESSIONAL EXPERIENCE

**Mind Over Machines**, Maryland

January 2015 – Present

*Senior Consultant*

Served as Senior Consultant & Software Engineer for a variety of clients in the health, education and financial sectors. Consulted organizational leaders on identifying the ideal technical solution to meet their business goals. Maintained software deliverables and managed client expectations following an Agile Scrum framework.

### Middleware Application to sync APIs

Architected .NET MVC middleware application to automate processes that coalesce three different RESTful APIs - Survey Monkey, Dynamics CRM, SharePoint

- Utilized Dependency Injection and Inversion of Control design pattern
- Maintained continuous delivery pipeline using Octopus Deploy with Azure Cloud Services
- Implemented Unit Tests using Moq framework following Test Driven Development (TDD) guidelines
- Leveraged Entity Framework for data layer and Newtonsoft for JSON to SQL ORM
- Collaborated on a Microservices design architecture to reuse application components across services
- Consulted on Azure hosting possibilities for scalability, pricing and security

### Donor Management Mobile Application with OData

Developed mobile application for an Arts Foundation that wanted to offer its donors a platform to manage promotions to local restaurant and entertainment areas

- Developed using Angular JS front-end and .NET Core 2.0
- Implemented OData protocol to standardize REST endpoints
- Utilized Entity Framework Core as ORM with MS SQL Server
- Built on Apache Cordova (Phone Gap) to allow platform agnostic distribution
- Designed with material design principles to deliver a sleek and modern user interface to attract a higher user-base
- Oversaw distribution through Google Play and Apple stores

### Idea Hub - React & Python/Django REST

Served as Tech Lead on a SPA application to allow city residents to pitch their ideas for technological solutions to benefit the city

- Architected front-end application using React /Redux
- Leveraged Redux containers and Sagas pattern to handle async requests and decouple UI components
- Supervised development of back-end using Python and Django REST framework
- Implemented Django ODBC driver to MS SQL Server for data layer
- Adhered to TDD design patterns for code maintainability and scalability

### Real-Estate Listing Application with Python/Django

Developed a responsive real-estate web application to provide users with querying, posting, and inquiring of home listings.

- Leveraged Django admin to create administration dashboard to allow user generated content
- Enhanced interface for Django admin to facilitate buyer/realtor communication
- Incorporated PostgreSQL with pgAdmin for database administration
- Integrated unit tests utilizing PyTest library and Magic Mock
- Utilized Django libraries of SendMail, ShortCuts and Messaging to minimize operational code

### Data Migration ETL using SSIS

Collaborated on an asynchronous ETL application (Extract Transform Load) to routinely migrate financial transactions for a government entity handling statewide financial data

- Orchestrated multiple SSIS packages to asynchronously migrate ~1M financial and transactional records daily
- Indexed relevant columns and normalized table relationships to optimize query performance
- Configured Change-Data-Capture (CDC) to monitor data changes to replace existing triggers impacting performance
- Created user functions and staging tables to accommodate time zone differences in UTC and track changes
- Collaborated with Database Administrators to implement High Availability and Disaster Recovery (HADR) redundancy

DAASN, Maryland

August 2014 – January 2015

*Web Developer*

Served as web developer for an SEO and Web PR company implementing applications for a diverse client base

### Membership Directory with .NET MVC

Developed a .NET application to assist an investment company in showcasing their members

- Utilized Razor views and JQuery Datatables for front-end
- Implemented 'Repository Pattern' architecture and Entity Framework as ORM
- Maintained deployment cycle leveraging Visual Studio with Azure deployment tools
- Addressed post-production feature and service requests

### Health Savings Calculator

Collaborated on building a health care calculator to allow members to calculate their health care costs and view charts that display their health savings

- Implemented HandleBars.js for templating and JS graphing library to dynamically display charts to the user
- Interfaced with MySQL database for calculator configurations and used PHP to retrieve relevant data
- Gathered client requirements and worked with Project Managers to create Agile sprint cycles
- Integrated with company's existing Word Press site

Missouri State University, Dalian, China

September 2013 – August 2014

*UX Lead / Web Content Manager*

Designed and developed internal and external facing Wordpress websites

- Created custom themes with PHP or used existing templates per client needs
- Built custom Twitter Bootstrap themes leveraging Sass
- Designed wireframes using a combination of Balsamiq, Axure, and Photoshop

## COMMUNITY ENGAGEMENT

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Code 4 Baltimore

July 2016 – Present

*Tech Lead*

Volunteer as technical advisor and lead developer on open source projects focused on “open government, open data, great design, and social good in Baltimore”

Baltimore Dance Crews Project

January 2017 - Present

*Dancer, Associate Developer*

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

## EDUCATION

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University of Maryland Baltimore County, Baltimore,  
January 2012 – June 2014

- 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
- Secondary Teaching Certificate
- GPA 3.6/4.00, graduated Dean's List

## ADDITIONAL INFORMATION

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*Certifications:* Architecting Azure Solutions 70-535

*Human Languages:* Fluent Spanish, Conversational Russian, Survival Mandarin