

**Sean Astrakhan**  
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An extraverted developer who thrives engaging with technical and non-technical audiences.

I love the “people” part of coding - whether it’s gathering requirements from decision makers; demoing to a stakeholder; or whiteboarding with my tech team, I thrive in dynamic environments where I can leverage my soft skills and a diverse technical background to improve operations and people’s lives.

## PROFESSIONAL EXPERIENCE

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[Genius Plaza](#), Miami

June 2020 – Present

*Lead Integrations Engineer & Full Stack Developer*

Externally serve as technical expert to school district and IT leaders to ensure a smooth integration between their systems and our platform. Internally serve as senior full stack developer and mentor.

### CSV Upload Service

Data Sync tool to allow School Districts to sync their system with our LMS through CSVs or REST APIs

- Lead team of 3-4 developers in a microservices architecture using Django Rest Framework & React/Redux
- Consult stakeholders on IMS education data standards and prioritizing MVP features with iterative releases
- Enhance frontend code coverage beyond component testing to include redux, async, and snapshot testing
- Implement an ETL cron job via SFTP to migrate CSVs into S3 that trigger a lambda for further processing
- Optimize SQL queries to process record counts (~300K) in less than 5 minutes despite heavy business logic

### Encrypted Folder File Storage Tool

Microservice offering external apps encrypted document storage e.g. HR app can store employee health records while Parents app can store permission slips.

- Secured with “End to End” encryption through AWS KMS
- Refactored legacy code to use React Hooks instead of Lifecycle methods
- Achieve 90% code coverage for unit tests using redux-mock-store and mockAxios libraries
- Strategically used stateless components to allow for code reuse and easy testing
- Leverage Ant-Design component-library to expedite common feature development

### Company Fullstack Initiative

Spearheaded company’s first fullstack initiative to cross train developers and create resources on best practices

- Empathetically mentored junior developers taking their experience, interests and learning styles into account
- Created videos and live-course training material to expedite new developer onboarding
- Balanced developer interests and skills when assigning tickets and encouraging all to “leave comfort zone”

[The Washington Post](#), DC

July 2019 – June 2020

*Senior Software Engineer*

Served as Senior Software Engineer on an award-winning software as a service (SAAS) content management system (CMS) that powers over 800 newspapers and media outlets worldwide. Consulted business leaders on best practices in platform integrations to expedite onboarding and optimize the readership experience.

### Middleware REST API Data Pipeline

Built a multi-tenant REST API following a microservices architecture to allow newsrooms to run and monitor ETL operations

- Developed the API using Python/Flask framework and Dynamo DB for transaction monitoring
- Deployed modular AWS Lambda endpoints which were polymorphic in implementation yet individual to client needs
- Utilized Celery and Rabbit MQ to streamline asynchronous operations
- Implemented Datadog wrappers to monitor bottlenecks, traffic request and overall pipeline performance
- Followed TDD best practices using Tox testing suite coupled with Pytest to ensure over 90% code coverage

### **Wires Application to Poll latest articles**

Collaborated on a scheduler application to retrieve latest stories for external feeds and migrate them to internal systems

- Adhered to “Strategy” Design Pattern to select appropriate feed type at runtime (e.g. RSS, Apple, Facebook, etc)
- Set up S3 buckets with Lambda triggers to monitor client changes and migrate content appropriately
- Deployed application using Serverless framework to ensure a consistent CICD pipeline
- Traced outcomes to AWS Cloudwatch for log monitoring
- Advised on short-term gains and long-term scalability issues of monolithic architectures

Mind Over Machines, Maryland

January 2015 – July 2019

*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.

### **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

### **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
- Worked with stakeholders to identify requirements and consulted on pros and cons of each API service
- Consulted on Azure hosting possibilities for scalability, pricing and security

## **COMMUNITY ENGAGEMENT**

Menitation

June 2020 - Present

*Co-Creator, Facilitator*

Facilitate a brave space for anyone identifying as masculine to support, challenge and embolden one another to achieve a fulfilling, purpose-driven life

Baltimore Dance Crews Project

January 2017 - March 2020

*Dancer, Mentor*

Tutor and perform hiphop dance alongside students to strengthen relationships to support youth from school to career

## **EDUCATION**

**University of Maryland Baltimore County**, Baltimore,

January 2012 – June 2014

- Masters in English
- Psi Chi and Sigma Delta Pi Honor Society Member

**Eastern Michigan University**, Ypsilanti, MI

September 2005-March 2010

- Bachelor of Science, Psychology and Spanish
- Dean's List

## **ADDITIONAL INFORMATION**

*Certifications:* Architecting Azure Solutions 70-535

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