

# Adrian M. Titus

Software Engineer

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Experienced, results driven engineer with a strong background in object oriented design/analysis, database applications, and web development. Proven ability to create database driven applications using a variety of technologies, with an emphasis on web enabled projects.

## Experience

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**Software Engineer IV** at Integrity Consulting Engineering & Security Solutions & Millennium Corporation, Inc

08/2016 - Present

I was part of a team developing multiple Ruby on Rails applications in support of JPM-MCS JPEO-CBD.

Full Stack: Rails 5.2, postgres, jQuery/bootstrap

- Led development of a full stack analytics engine functioning as a single page application in rails. Users are able to query 7 different modules, with each module having unique query parameters.
- Developed a cost analysis engine, allowing users to estimate cost for drug trials based on historical data, including inflation factors.
- Took over development of a facility management and search application, refactoring existing code to increase performance and maintainability.
- Implemented a role based access system allowing facility owners to manage user permissions.
- Implemented ElasticSearch for full text search capabilities in addition to database field based queries.

**Senior Software Engineer** at Avaya Government Solutions

01/2016 - 08/2016

I came on to take over and update an underperforming, client facing Rails application.

- Improved front end performance over 300% by optimizing backend mysql queries and front-end jquery libraries. This included in place sorting, search and paging.
- Took over maintenance of CentOS lab and production servers, updating to address security concerns as well as deployment of the application.

**Software Engineer** at Social Growth Technologies, Inc  
07/2015 - 10/2016

Full Stack: Django, Python, MongoDB.

- Worked on a prototype real time analytics engine using MongoDB, successfully completing a trial run with thousands of entries per minute.
- Lead engineer on a cost per click API that used geo-targeting to serve relevant ads, serving millions of calls/day.
- Designed and developed an API for deeplinking affiliate links including transaction and tracking data, serving 15000 calls/day.

### **Technical Skills and Competencies**

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- Expertise with Ruby, Ruby on Rails.
- Expertise with Relational Databases (Mysql, Postgres), including table and query optimization.
- Experience with JQuery, Bootstrap
- Deployment experience with Heroku, AWS, capistrano.
- Experience with Python, Django
- Experience with MongoDB.
- API development and integration.
- Agile development and methodologies
- Test driven development

### **Technical Skills and Competencies**

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**University of Maryland, Baltimore County**  
Baltimore, Maryland  
Bachelor of Science in Computer Science  
09/2001 - 09/2005