

Steven Barron, Application Developer, Aug 2018
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Jan 2018 - Aug 2018: FDM Group & Moody's : Application Architect, AWS

- Development of AWS applications to create the blueprint for Moody's upcoming cloud migration
- Designed and developed the 'Content Management in the Cloud' demo to explore how Moody's will use AWS for managing and searching their vast store of records. Successfully incorporated Elastic Search into a serverless AWS app which indexed meta-data in DynamoDB, and then used Elastic Search methods to customize the search according to requests taken from Moody's Analysts
- Developed a 'MicroServices in the Cloud' application to demonstrate the automated deployment of a service class in an existing Moody's application
- Developed a demo for scaling a Moody's app with Docker in AWS using Elastic Container Service and Elastic Load Balancer. This successfully proved the feasibility of replicating the current on-prem solution and demonstrated the scalability advantages of moving the app to the cloud
- Created and compared Serverless AWS apps using GraphQL and React. These demos introduced leaders to the 'Backend for Frontend' design pattern in the cloud, and provided a framework for future decisions about front end development in AWS
- Created a 'Baseline and Target Architecture' for Moody's migration of applications to AWS. I combined code research, use-case analysis, and user-experience research to create a 'Catalogue and Matrix' of all Information System Services, and then provided an assessment of different options for app migration, including Docker, Lambda, or EC2
- Primary technologies include Node (JS SDK), Python (Boto3), GraphQL with Serverless, React, Docker, and Elastic Search
- Top AWS skills: Lambda, Cloudfront, APIGateway, DynamoDB, CloudFormation, CodeDeploy, and CodeCommit

Dec 2015 - Oct 2017: Accenture: Java Spring Developer

- Developed the State of Massachusetts Child Support page for initiating a 'service of process' using Java Spring with MVC and DAO design patterns. This high-stakes page included exceptionally complex legal-business rules, and required me to develop mastery in MVC and web service technologies, enabling me to make iterative progress until the page met all the standards
- Developed the authorization security scheme for the Child Support site using Spring Security

- Performed role as a build and release engineer during a client's (Comcast) migration to DevOps. Used Jenkins and Git to deploy 6 non-prod) stages of our app
- Key technologies include Hibernate, AngularJS, Maven, Github, Jenkins for build and release management, Salesforce for integration with other web pages, and all aspects of Java Spring ranging from MVC development, creation of RESTful web services and Spring security

4.) 2005 –2009: United States Army Officer

- Planned and implemented the logistics to deploy a company of soldiers to Iraq
- Served as a platoon leader in an active combat zone
- Developed a range of skills that have benefitted my career in software development, like long-range planning and the ability to see and prevent problems before occurring

5.) Education: MS Bioinformatics, University of Maryland, 2016

- Software development intensive major with a focus on developing algorithms to analyze data-sets over 2GB using basic artificial intelligence and statistical techniques