**MATTHEW BRYDUCK**

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**CAREER PROFILE**

Technologist with 12 years of experience of learning and mastering a multitude of different technologies for the: (1) United States Navy, (2) private sector, (3) University of Tampa, and (4) Accenture.

**SUMMARY OF RELEVANT SKILLS**

* **Languages**: Java, Python, TypeScript, JavaScript, Groovy Script, CSS, HTML, XML, JSON, YAML, CQL, and SQL
* **SDLC**: Agile, Lean XP, TDD, and DevOps
* **CI/CD and DevOps:**Jenkins, Jules, Terraform, Docker, JFrog Artifactory, Urban Code Deploy, Checkmarx, Splunk, and Sauce Labs
* **Database**: NoSQL (DynamoDB, Aurora, and Cassandra)
* RDBMS (MySQL and PostgreSQL)
* **Tools & Frameworks**: Git, Postman, Junit, Maven, Mockito, Spring Boot, Angular, Karate, Jasmine & Karma, Cypress, Apache Tomcat, Apache Kafka, Apache Spark, Splunk, Node.js, iText, Confluence Jira, PyCharm, IntelliJ, VS Code, MS Teams and MS Office
* **Cloud**: AWS and Cloud Foundry

**PROFFESSIONAL EXPERIENCE**

**Employer Name: Accenture**

**Client: Financial Institution**

**Start Date: 11/20/2020 End Date: Current**

**Role Played: Software Engineer**

Financial Institutionselected the Dallas Cloud DCIC to build a Java 11 based application, deployed onto AWS Lambda function, that consumes an JSON event, retrieves data (in the form of a JSON) and PDF template from an AWS S3 Bucket, converts the data and template into final PDF file, and puts the PDF file into an AWS S3 Bucket. For this project, I help develop, unit test, and migrate the application in and from Accenture AWS environment to client-facing AWS environment.

**Responsibilities:**

* Developed code in and restructured a Java 8 based application, running on an AWS EMR on AWS EKS cluster, which executes Apache Spark queries against parquet files retrieved from various AWS S3 Buckets, and outputs a Spark table, in the form of a JSON, into an AWS S3 Bucket.
* Enhanced the AWS Lambda function to produce multiple file types.
* Developed code in a Java 8, Spring Boot, microservice. This microservice receives get/put/post calls, interacts with a Cassandra database, and publishes output to a Kakfa topic.
* This project utilized Confluence for documentation, Jira to track and update user stories, Bitbucket as source control, Jenkins for CI/CD, and Terraform to provision AWS infrastructure.
* Developed, utilizing the Karate Testing Framework, integration tests for multiple microservices in the client’s environment
* Gave seven client-facing demonstrations, where I demonstrated functionality to a large client audience.
* Held multiple KX sessions, where I demonstrated, to fellow SEs, client facing applications and how to use them
* Became the SME of client-facing application, demonstrated the functionality of said application to large client audience, and held follow-up meetings to answer questions
* Because of my broad experience with the client applications, I, on a multitude of occasions, enabled fellow Accenture and client SEs to complete their user stories

**Employer Name: Accenture**

**Client: Financial Institution**

**Start Date: 06/02/20 End Date: 11/16/2020**

**Role Played: Software Engineer**

A Financial Institutionselected the DCIC to build a three tier application on AWS infrastructure. The work flow of this application is as follows: (1) an xml payload sent via AWS SQS to an AWS Lambda function meant to handle an array of different xml payloads; (2) once triggered, the AWS Lambda, utilizing Python 3.7, parses the various xml payloads, which triggers, based on the type of xml payload, subsequent AWS Lambda functions; (3) after the parsed and appropriate AWS lambda function triggered, said AWS lambda function inserts or updates a table(s) in a AWS Aurora database; and (4) lastly, via an User Interface, developed in Angular 9, users through an API Gateway, triggered a AWS Lambda, which made queries against an AWS Aurora database, could interact with the updated data.

**Responsibilities:**

* Developed the applications backend python logic, which processes the XML data.
* This project utilized Confluence for documentation, Jira to track and update user stories, Bitbucket as source control, Jenkins for CI/CD, and AWS SDK to provision AWS infrastructure.
* Produced 20+ backend unit test cases which tested business logic functionality.
* Implemented business logic on AWS Lambda
* Developed the SQL codebase that creates, inserts, and updates database table.
* Helped create, utilizing Angular 9, a user interface.
* Wrote 30+ front end unit test cases utilizing the Jasmine Testing Framework and Karma test runner.
* Created the service that integrated SSO with user interface.

**Employer Name: Accenture**

**Client: Financial Institution**

**Start Date: 04/00/20 End Date: 06/01/20**

**Role Played: DevOps Engineer**

Financial Institution employed the DCIC to migrate their application from on-premises infrastructure to AWS cloud infrastructure as well as update the application’s technology stack. For this project, I was a member of a DevOps team. This required the use several DevOps related technologies, such as Maven, Jenkins, Docker, and Tomcat. I, along with my team, developed groovy scripts that automated the construction of the Financial Institution application.

**Responsibilities:**

* Migrated monolithic Java EE based application from on-prem/brownfield (Solaris/iPlanet/WebLogic/Oracle RAC) to AWS greenfield (Linux/Apache Web Server/Tomcat/Oracle RDS).
* Developed groovy scripts that automated the construction of the client’s application.
* Took client’s existing monolithic application and containerized the application utilizing Docker.
* Modernized CI/CD pipeline utilizing Jenkins, Maven, SonarQube, Checkmarx, and Twistlock.

**Employer Name: Accenture**

**Start Date: 01/22/20 End Date: 03/05/20**

**Role Played: Software Engineer**

The goal of this project was to develop a sophisticated and useful Node.js custom skill, which featured the integration of external API calls, OAuth 2.0, and AWS DynamoDB, as well as dialog management, state management, and a self-provisioned AWS Lambda function. For this skill, the OAuth 2.0 server was used for account linking, which allows users to connect their user identities across the client's authentication/authorization system. This Alexa Billing Skill utilizes the notion of a truly serverless architecture - a software design pattern where applications are hosted by a third-party service, eliminating the need for server software and hardware management by the developer.

**Responsibilities:**

* Acquired requirements from the product owner.
* Analyzed and estimated user stories.
* Participated in application architectural design discussions.
* Designed and developed Alexa Skill application using Alexa Skill Console, Alexa Skill Kit command line, and NodeJS.
* Provisioned AWS Lambda Function and DynamoDB and linked to Alexa Skill.
* Created Proof of Concept for Alexa Skills.
* Demonstrated the functionality to Stake Holders at the end of every iteration.

**Employer Name: Accenture**

**Client: Financial Institution**

**Start Date: 09/22/19 End Date: 01/21/20**

**Role Played: Software Engineer**

As part of a Financial Institution’sapplication modernization process, they wanted to host their applications on AWS infrastructure, in a secure manner. Moreover, they wanted to deconstruct their monolithic application architecture and recreate it utilizing off-premises cloud-based provisioned infrastructure, Spring Framework, and microservice based architecture.

**Responsibilities:**

* Acquire requirements from the product owner.
* Analyzed and estimated user stories.
* Participated in application architectural design discussions.
* Designed and developed application using Angular 8, Java, HTML5, CSS, and MySQL.
* Constructed and implemented RESTful web service controllers using Spring Boot.
* Created Proof of Concept for new features.
* Demonstrated the functionality to Stake Holders at the end of every iteration.
* Wrote JUnit testing classes for comprehensive coverage of test cases.
* Wrote API integration tests with the Karate framework.
* Trouble shooting, bug fixing, and system maintenance.

**Employer Name: ISR Group**

**Start Date: 10/01/09 End Date**: **12/12/12**

**Role Played: Field Service Representative**

**Responsibilities:**

* Deployed to Afghanistan and Iraq.
* Conducted intelligence, surveillance, and reconnaissance (ISR) missions.
* Analyzed 1,000+ hours of real time infrared and high-resolution imagery.
* Provided technical expertise that assisted in the prevention of service member deaths and equipment losses.
* Participated in committees consisting of individuals from all levels of the U.S. military and private sector.

**Employer Name: United States Navy**

**Start Date: 09/18/01 End Date**: **09/09/09**

**Role Played: Weather Forecaster**

**Responsibilities:**

* Validated and verified forecasting models with satellite and radar imagery, upper air charts, and weather observations.
* Constructed and 1000+ mission critical comprehensive weather and oceanographic reports, in support of U.S. Navy submarine, aircraft, fleet, and special forces operations.
* Produced technical presentations for intranet, internet, and fleetwide distribution.
* Managed METOC data uploads, numerical modeling software, and automated systems, in an operational context.
* Instructed 40+ individuals on unmanned system methodologies, maintenance, and operations.

**EDUCATION**

**University of Tampa**, Tampa, Florida December 2018

**Advanced Weather Forecasting Schoo**l, Department the Navy, Biloxi, MS May 2006

**Basic Weather Analyst School**, College of the Airforce, Biloxi, MS March 2002

**AWARDS**

* Navy Meritorious Unit Commendation
* Navy and Marine Corps Achievement Medal
* Navy Good Conduct Medal
* National Defense Service Medal
* Global War on Terrorism Medal
* Three Flag Letters of Commendation