

Ahmed (Farghaly) Abdalmetaal

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SUMMARY: Experienced Software Developer with 3 years of experience in web development and 6 months experience in android development, with practical experience of 3 years in Node.js, AWS serverless architecture, serverless development, Lambda functions, API gateway, NoSQL databases such as DynamoDB and MongoDB, RDS such as MySQL, and 1 year in React.js. Team worker, Ambitious, Goal-oriented, issue resolver, dedicated work force with excitement for self-advancement and long for progress.

SKILLS

- Operating Systems: Windows, Linux, and Unix
- Development Tools: AWS, Serverless, EC2, S3, CloudFormation, NodeJs, JavaFX
- Frameworks: Express, ASP.NET Core, Flask, Spring
- Database Dev Tools: SQL, NoSQL
- Programming Languages: JavaScript, Python, C#, Java
- Font End Dev Tools: Chrome Dev Tools, HTML, CSS, Sass, ReactJS, Bootstrap, Ajax, JQuery, DOM

CERTIFICATIONS

- AWS Solution Architect Associate– Dec 2019
- AWS Developer Associate – March 2020
- AWS SysOps Admin Associate – Jan 2020
- CSC,LLQP, & CPH – Aug 2016

PROFESSIONAL EXPERIENCE

SOFTWARE DEVELOPER [FREELANCE] , TUT DISTRIBUTIONS, MONTREAL, CA— AUG 2019 – PRESENT

- Design Serverless architecture for the system infrastructure used, back-end and front-end
- Develop and maintain internal applications in ASP.NET Core including improvements to the back-end application
- Design internal system application used by all employees using MySQL database, tables and views structure
- Develop Lambda functions (.Net Core 2.1), API Gateways to implement the functionalities of the back-end architecture
- Provision S3 Buckets, CDN, and Route 53 for front-end implementations of the system
- Build user interface using React Library, and bootstrap framework
- Develop Automated unit, integration, system and user acceptance tests that resulted in the internal application meeting 100% of quality criteria

SOFTWARE DEVELOPER [CONTRACT] , HM GLOBAL CONSULTING, MONTREAL, CA— NOVEMBER 2018 – MAY 2019

- Developed and maintained internal applications in Nodejs including improvements to the back-end application
- Designed internal system application used by all employees using MySQL database, tables and views structure
- Optimized query performance and populated test data into a MySQL Database running on AWS
- Implemented and maintained the database using Procedures, Functions, Cursors and Triggers
- Performed quality assurance and testing of the MySQL environment, including performance testing and load testing
- Developed Automated unit, integration, system and user acceptance tests that resulted in the internal application meeting 100% of quality criteria

STORE MANAGER [CONTRACT], SPIRIT HALLOWEEN, FREDERICTON, NB – AUGUST 2018 – NOVEMBER 2018

AMAZON WEB SERVICE DEVOPS CONSULTANT [CONTRACT], SALIENT EDGE- CARY, USA— MAY 2018 – AUG 2018

- Evaluated the company's current cloud infrastructure and developed several architectural improvements to its current infrastructure resulting in an increase in security, fault-tolerant and reliability
- Provisioned and integrated several AWS cloud elements, improved unnecessarily provisioned EC2 instances resulting in Significant Cost reductions.
- Developed and executed over 25 Tests to ensure that system latency, performance and reliability met or exceeded client's specifications

HIGH SCHOOL MATHMATIC TUTOR, TUTOR DOCTOR, MISSISSAUGA, ON – APRIL 2017 – JULY 2018

SOCCER COACH, INTERNATIONAL CLUB, MISSISSAUGA, ON – **APRIL 2017 – JULY 2018**

FINANCIAL ADVISOR, EDWARD JONES, MISSISSAUGA, ON – **AUGUST 2016 – MARCH 2017**

SENIOR TECHNICAL ASSISTANT, KUWAIT OIL COMPANY – AL AHMADI, KUWAIT **NOVEMBER 2014 – Mar 2015**

- Designed Relational Database system (RDS) to digitalized the paper-based data on MySQL
- Transformed data into reports by creating a excel KPI Dashboard using pivot tables, and Excel macros
- Presented the analytics and results to senior engineers to devise data-driven decisions.

EDUCATION

BACHELOR OF ENGINEERING, DALHOUSIE UNIVERSITY – HALIFAX, NS - **MAY 2014**

Major in Mineral Resources.

RELEVANT PROJECTS

PROJECT 1 [CONTRACT]

- Title : Cloud Infrastructure Platform
- Client : McMaster University
- Start Date : January 2018
- End Date : March 2018
- Environment : Amazon Web Services
- Tools : AWS VPC, AWS EC2, AWS S3, RStudio, AWS RDS, AWS Active Directory, ADFS, Shibboleth, AWS CloudFormation, AWS CloudFront, AWS Lambda, AWS API Gateway, AWS SNS, AWS IAM, AWS EMR, AWS Data Lake
- Role : Software Developer [Contract]
- Company : AcCloudcs Start-up

CLIENT DESCRIPTION:

McMaster University is a Canadian public research university in Hamilton, Ontario; established in 1887. The university has approximately 32,000 student of which around 27,000 are undergraduates.

Project Description: McMaster University is offering a new Big Data Analytics Program that utilises industry current software, methodologies and techniques to analyze data, solve business problems and build a professional portfolio. They require a cloud infrastructure on which students can deploy data modelling, Extract Transform Load (ETL), data visualization, data quality and programming environments to learn and complete course assignments. In addition, university requires a training module for each of its courses

Responsibilities:

- Setup and manage VPC, Subnets; make connection between different zones; Blocking suspicious ip/subnet via ACL.
- Provision an active directory which holds the user's credentials
- Provision a Federation of Microsoft Active Directory with Shibboleth and As well as ADFS
- Administrate and control SSO via EC2
- Build an AWS based cloud infrastructure for users to upload, download, edit files using Amazon S3 buckets
- Create S3 bucket space alert via SNS and automatic deletion via Lambda Functions
- Provision RStudio Service on an EC2 instance for the users to use through the cloud infrastructure
- Run Automated tests to check the functionality and performance of the designed system using unit, integration, and Regression Testing
- Create a CloudFormation Template for faster setup provisioning

PROJECT 2 [CONTRACT]

- Title : Beacon App
- Client : Ap1
- Start Date : April 2019
- End Date : May 2019
- Environment : Amazon Web Services
- Tools : AWS Lambda, AWS API Gateway, AWS Aurora, AWS CodeCommit, AWS Pipeline, AWS S3
- Role : Back-End Software Developer [Contract]
- Company : Scale Stack

CLIENT DESCRIPTION:

AP1 is a Canadian company specializes in offering beacon-enabled solutions through their strategic partnerships and beacon-agnostic management platform. This platform enables organizations to remotely manage beacons, scale deployments and address numerous levels of security.

Project Description: AP1 project is about building a beacon mobile application which enables to send specific data about the mobile which comes in proximity with their beacon devices, as well as enabling the beacon devices to send data such as advertisements and discount codes to phones close to them depending

Responsibilities:

- Setup a serverless back end infrastructure.
- Provision a SQL Database to store the data sent
- Provision a S3 Bucket systems for the data being sent to the mobile phones
- Create Continuous Development, continuous integration environment
- Create a Serverless Framework Template for faster setup provisioning

PROJECT 3 [PERSONAL]

- Title : Serverless Text to audio web application & Serverless Youtube mimic web app
- Github Repo : <https://github.com/afarghaly10/cSharp/tree/master/ASP.NET-MVC/Vidly>
- Environment : Amazon Web Services
- Tools : AWS Lambda, AWS API Gateway, MySQL, ASP.NET Core 2.2

Text to Audio Description: Serverless web application for a movie renting company or video streaming

Responsibilities:

- Setup a serverless back end infrastructure.
- Develop Lambda functions and API Gateways for back-end
- Provision a RDS MySQL Database to store the data sent
- Provision a S3 Bucket to host the web applications and data storage
- Provision CloudFront for Content Delivery
- Provision AWS Polly service for text to audio conversions
- Provision AWS Elastic Transcoder for video formatting