

SAILESH KOTHA

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PROFILE SUMMARY

- 4+ years of experience in Software Development, DevOps Engineer with configuration management tools.
- 3+ years of experience with JavaScript & node.js
- 1+ years of experience in Data Engineering using PySpark, RedShift,
- Experience in designing and developing RESTful Servers in JavaScript (ES6), Express, and DynamoDB.
- Extensive experience in development & setting up from scratch front-end (Mobile, Web), and back-end testing framework in JavaScript (node.js)

TECHNICAL PROFECIENCY

- *Languages & Web Development: C, C++, HTML5, CSS, JavaScript, NodeJS, ES6, Angular, React, Bootstrap, Python, Java, Serverless Framework*
- *Data Engineering and Data Warehouse: Databricks, PySpark, Spark SQL, Redshift*
- *Databases: MySQL, Oracle SQL, NoSQL, AWS Neptune, Elasticsearch*
- *Cloud: Amazon Web Services*
- *JavaScript Stack: Node.js, Express, Mocha, Chai, React*

HIGHLIGHTS

- Broad experience and extensive knowledge of software engineering
- Adept in understanding and analyzing business requirements and crafting technical solutions
- Excellent interpersonal and communication skills, both verbal and written
- Skilled at assessing and prioritizing opportunities, setting project milestones, aligning stakeholders and communicating decisions across the company
- Ability to remain calm under pressure and make swift, accurate decisions in emergency situations.

PROFESSIONAL EXPERIENCE

Software Engineer – Meredith Corporation | Des Moines

Dec. 2017 - Present

- Working on 50+ API's for 15 services in NodeJS using API Gateway, Lambda in AWS
- Enabled IAM Authentication on API's and used AWS v4 signing method in JavaScript to sign the requests to API Gateway.
- Created a CI/CD pipeline in Jenkins to deploy PySpark notebooks to databricks using databricks SDK and the required resources (S3, SQS, Dynamo, IAM Roles, ...) in AWS using CloudFormation template.
- Designed, developed and scheduled data pipeline in databricks to clean and process 1 terabyte of raw analytics data per day in S3 across 15 websites using Apache Spark and persist the data in S3 for MapReduce jobs and DynamoDB for random access.
- Working with PySpark notebooks which includes complex queries, filtering, processing and reducing the dataframe and RDD.
- Working on Spark Streaming/Kafka for interactive queries, processing of streaming data and integration with DynamoDB and S3 for huge volume of data.

- Working with python testing framework(pytest) for unit testing PySpark user defined functions for complex data transformations on aggregated dataframe rows.
- Working extensively with IAM, API Gateway, Lambda, CloudFront, CloudFormation, Route53, SQS, SNS, S3, RedShift, DynamoDB, EC2, Spot Instances, CloudWatch in AWS.
- Working with ECMA Script 6 features. For build of JSX and ES2015(ES6) used Babel, webpack.
- Worked with modules like node-postgres for database persistence using Node.js to interact with PostgreSQL.
- Worked with unit testing of JavaScript applications using Mocha, Chai, sinon.js.
- Utilized Cloud Watch and Splunk to monitor resources such as EC2, CPU memory, Amazon RDS, Dynamo DB tables, EBS volumes; to set alarms for notification or automated actions and to monitor logs for a better understanding and operation of the system.
- Maintained high level of unit test coverage through test-driven development.
- Involved in scrum meetings, product backlog and other scrum activities and artifacts in collaboration with the team.
- Working with CloudFormation yaml templates to create roles, users and groups and attached policies in IAM to provide minimum access to the resources.
- Created and configured topics in SNS to send notifications to subscribers as per the requirement via CloudFormation template

Software Engineer – Lotus Interworks | Los Angeles

Aug. 2016 – Dec. 2017

- Responsible for planning, designing and developing web applications using a variety of other technologies including **ES6**, **NodeJS**, Electron.io, Nightmare JS.
- Successful design and development of automation test scripts with the use of Node JS.
- Works on a foundational workflow technology enabling real-time dispatch of work to agents integrated with all communication modes.
- Developed an automated script which extracted and stored the incoming emails on the domain into the database.
- Plan and create test automation from scratch with JavaScript, mocha, chai, Selenium WebDriver and request library.
- Spearheaded the implementation of the login system for the application, using the Cognito as the identity provider, and enabled Single sign-on on various websites.
- Played an integral role in developing a crawling system in NodeJS using Nightmare JS for complete crawling of apartments sites.
- Developed a script to perform location-based, distance-based queries on elastic search domain.
- Constructed a proof of concept Bot in AWS Lex (Service for implementing conversational interfaces).
- Extensive experience with Continuous Integration Tools like Jenkins, and good working knowledge on source repository management tools like GIT, SVN.
- Designed and Implemented an Email system for a domain using SES, Route53, S3, and NodeJS in Lambda.

Graduate Teaching Assistant – University of Central Oklahoma

Aug. 2015 – Apr. 2017

- Assisted **40+** students with databases and grading their assignments as well as exams.

- Educated **20+** students in solving and programming in Advanced Calculus, Programming in C++ and Java, Mobile apps programming (Android), Applied Database Management in Oracle SQL, PHP
- Collaborated with professors to develop study strategies for 50+ students

Professional Freelancer – Upwork.com

Mar. 2015 – Aug. 2016

- Developed a Backup script for EC2 instances in AWS Environment to schedule create and delete snapshots with Boto (A python library for managing Amazon web services).
- Shipped SQL Server logs across regions in AWS Cloud.
- Developed a PowerShell Script to push and pull transaction logs to and from S3.
- Implementation of Nagios Monitoring Tool to monitor EC2 instances on Cloud. Setting up Nagios Server on Ubuntu and Monitoring parameters like Services (Up or Down), CPU, Memory, Hard Drive.
- Developed Python Script (AWS SDK Boto3) For Complete VPC Setup, Internet Gateway, with subnets and to create instances within those subnets.
- Promoted from fresher to top-rated freelancer within 5 months of working on projects.
- Created a landing page on AWS, setup a server on AWS EC2 in NodeJS, associate it with an Elastic IP which internally routed from Route53.

Programmer Analyst Intern – Wipro

Mar. 2014 – May. 2015

- Setup and build AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates
- Supported AWS cloud instances running Ubuntu, Red hat and Windows environments.
- Manage Virtual environment using Hypervisor and VMware Virtual Center.
- Installs Firmware Upgrades, kernel patches, systems configuration, performance tuning on Unix/Linux systems.
- Deployed and configured Git repositories with branching, forks, tagging, and notifications. Experienced and proficient deploying and administering GitHub

EDUCATION

M.S in Computer Science (GPA: 3.75) – University of Central Oklahoma | Edmond, OK 2017
B.Eng. in Computer Science & Engineering (GPA 3.70) – Sastra University | India 2015

CERTIFICATIONS

- AWS Certified Developer 2017 License MK4294422BQ1199N Oct. 2017 – Oct. 2019
- Programming for Everybody (Python) Dec. 2014