Avinash Ramesh

Full Stack Developer

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Professional Summary

Ambitious Java developer with 5 years of experience in developing and designing Enterprise web applications, including 1.5 years of experience in Engineering Data on AWS. Passionate about building robust Data-driven platforms. Seeking to leverage broad development experience and hands-on technical expertise in a challenging role as a Full-stack Developer.

EXPERIENCE

Bayer Crop Science
Jan 2020 - Present

Java Application Developer

Developed data processing agents and web applications on behalf of a research laboratory to help scientists collect data during various stages of experiments and build a data pipeline for analyzing and visualizing genetics information.

Capgemini Technology Limited.
August 2017 - December 2019

Full Stack Developer

Java application developer in the Global payments fraud protection, unit of Discover financial services. Built a platform that helps analysts to review audit business logic which will be deployed into a machine learning model for detecting fraud across discover payments network.

TECHNICAL SKILLS

Languages: **Java 8**/**Java 11**, JavaScript, Python, Shell scripting.

Spring Frameworks: Spring boot, Spring Security, Spring Data JPA, **Spring web services,** Hibernate**, JDBC.**

Cloud Technologies: Google Cloud Platform(**GCP**), Amazon Web Services(**AWS**)

Frameworks: Apache Kafka, Apache Airflow.

AWS: IAM, AWS S3, **AWS Lambda**, EC2, AWS Fargate. SageMaker, Docker.

GCP: **BigQuery,** Data Flow, Data Proc, Compute Services.

Tools: Tomcat/Apache web Servers, Jira, CodeBuild, Jenkins, **Vault, Git,** GitHub, MAVEN.

Database: Oracle, **PostgreSQL**.

EDUCATION

M S Ramaiah Institute of technologies
2013-2017

Bachelor of Engineering(B.E) in Information Science.

CERTIFICATIONS

Google Cloud Certified Professional Data Engineer
March 2023

Google Cloud Professional Data Engineers enable data-driven decision making by collecting, transforming, and publishing data.

DevOps on AWS: Code, Build, and Test
March 2022

Building and deploying a dockerized application using code build and AWS Fargate.

Building Modern Java Applications
Oct 2021

Building and deploying Java applications using docker containers and container hosting services like Amazon Elastic Container Service or Amazon Elastic Kubernetes Service.

AWS Fundamentals Specialization (4 courses) by AWS on Coursera
May 2020

Going Cloud Native, Migrating to the Cloud. Building Serverless Application, Addressing Security Risk.

PROJECTS

Bayer Crop Science
ATLAS Workflow for Rice

Atlas is a Laboratory Information Management System (LIMS) developed by the Plant Biotechnology Data Engineering organization. Lab experts use it to manage projects from the receiving of samples through DNA extraction, replication, and analysis. It involves the use of many technologies both on-premises and hosted in AWS.

Accomplishments:

- Determined project technical needs and coordinated specifications and requirements
- Designed and deployed the workflow for collecting data during various stages of experiments
- Developed data pipeline to publish data or to read data from the subscribers using **Apache Kafka**
- Implemented a Serverless approach using **AWS Lambda** to process data collected from the Lab
- Integrated Continous Integration and Continuous Deployment using **Jenkins** to deploy the application on **Cloud Foundry**/AWS.
- Created technical workflow documents in **GitHub** wiki pages to promote education and training for interns and end-users.
- I have implemented best practices for coding, documentation(Javadoc), Unit Testing(Junit), and Version control(Git).
- Presented ATLAS Framework in Innovation in crop science and various other platforms.

Capgemini Technology Limited
FALCON for Payments and Fraud detection.

Falcon is an application built in collaboration with FICO Credit scoring Engine to prevent fraudulent transactions in real-time hosted in on-premises servers.

Accomplishments:

- Developed Expert and Case manager application which are used in deploying rules and managing cases created during fraudulent transactions
- Orchestrated applications of FALCON through tools like **Autosys**, AppDynamics, and Troubleshot production issues
- Designed and documented **RESTfull** Web services using **Spring Web** and **OpenAPI**
- Developed **automation scripts** to communicate with back-end servers to give real-time update information
- Collaborated with multiple teams for implementing change requests and resolving production issues
- Trained and mentored 10 junior staff, including steps on how to independently implement minor changes or updates
- Designed, managed, & maintained scripts to **automate operational processes**(health check report of applications) to reduce the time from 2 hours to 30 seconds
- Devised automated transaction summary report which brought down the task time **to 5 minutes from 1 hour**

HONORS

The Mover Award (Nominated)   *June 2022*
Bayer Crop Science

Providing the best processes that drive step-change innovation in product & pipeline development and high-quality decision making enabled by data & AI.

Bay Champ Award   *August 2021*
Bayer Crop Science

Developed and Deployed Application in 2 weeks to provide real time tracking of Insect life cycle with resource planning and analytics.