

## AKSHAY REDDY AKKATI

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### Professional Summary:

Enthusiastic software engineer with 3 years of experience in full stack development, distributed systems, Microservices, automation and cloud computing. Passionate about developing highly scalable and secure enterprise level applications.

### Education:

**University of Maryland, Baltimore County**

**GPA: 3.88/4**

**Aug '19 to May '21 (expected)**

Master's in Computer Science

**Kakatiya University – Warangal, India**

**GPA: 3.4/4**

**Oct '12 to May '16**

Bachelor of Technology in Computer Science

**Relevant Coursework:** Data Structures and Algorithms, Advanced Computer Architecture, Machine Learning, Service Oriented Computing, Distributed Systems, Network Technologies, Computer Security, Data Processing, Artificial Intelligence, Data Mining.

### Work Experience:

**Software Engineer, Tech Mahindra Limited, Bengaluru, India**

**Nov '16 to Jun '19**

**Client: NextEra Energy**

- Developed RESTful APIs for back-end using Spring to migrate the data from on-prem Database to AWS S3 periodically every day and every month. Daily files are deleted once the monthly migration is successful.
- Implemented a validation tool which checks the size of data migrated, MD5 checksum of files and generates a final report for migration. This process helped the team reduce the time involved in manual monitoring by 60%.
- Developed a utility to convert csv files to avro files before migrating to S3 which reduced the space utilization by more than 50% which helped in cost reduction.
- Performed requirement analysis, design, development and test management of a full stack web application which automates the task of generating and feeding config files to Datalogger which helped our team to reduce efforts by 80%.
- Illustrated the usage and metrics of APIs with graphs on front-end using Angular and highcharts library.
- Secured the APIs by implementing OAuth2 token-based authentication and authorization using spring security.
- Integrated Kafka in application to get real-time streaming data and used mqtt protocol to communicate with Datalogger.
- Integrated Datadog services in application to visualize performance and analytics of wind sites.
- Reduced the performance issues and time by implementing deserialization using AWS Glue.
- Created a POC application (Asset Management Tool) with MEAN stack using which we can compare various assets of an organization located at different locations.

### Technical Skills:

Java, Python, JavaScript, Angular, React, Node, Swagger, RESTful API, AWS, SQL, Oracle, PostgreSQL, MySQL, MongoDB, Git, Bitbucket, JIRA, Confluence, SharePoint, Spring Boot, Hibernate, JPA, Kafka, Windows, Linux, Microservices

### Certifications:

- Oracle Database SQL Certified Expert.
- Oracle Database 11g Administrator Certified Associate.

### Academic/Other Projects:

**Smart Parking** - Developed an application using computer vision and machine learning techniques to help user identify empty parking slots. Users can navigate to the nearest empty parking lot using the UI which is developed in React.

**Intrusion Detection System using Machine Learning** - Developed a machine learning tool which helps in detecting if the event is an attack or a normal behavior. The model is developed based on SVM algorithm and achieved an accuracy of 88% after tuning the hyper-parameters.

**Taxonomy & ranking of reusable components for effective retrieval** - To retrieve information according to the user need effectively from repository which uses rating and number of downloads as parameters.