

ARITRA KUMAR LAHIRI

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Portfolio: <https://aritra23.github.io/>

Summary

7+ years of experience in developing scalable web applications using Java, TDD, Agile principles. Adept in Pair Programming style of development in iteration based process.

Technical Skills

Programming Languages: Java, C#, C++, C, JavaScript, Python, R

DBMS: Oracle, MS-SQL, MySQL, MongoDB, Postgres, Hive

Technologies: J2EE, D3, HTML, CSS, Sass, Angular 6, XML, SOAP, REST, Bootstrap, JSP, JSON, WSDL, Typescript

Tools/Frameworks: Spring MVC, Hibernate, Spring Boot, AWS S3, Selenium, ASP.NET, Spark, Node.JS, Git, Tomcat, Anaconda, Jupyter Notebook, Pivotal Cloud Foundry, LDAP, ADFS, OAuth2, Docker, Kubernetes, Tableau

Professional Experience

Software Engineer - Ford Motor Company

May 2019 – Till Date

- Implemented web application in Angular for front end, with backend Restful API in Spring Boot and Java. Utilized Spring Data JPA for persistence, MSSQL server for storage and deployed on Ford On Prem Cloud in Pivotal Cloud Foundry(PCF).
- Created an AWS S3 microservice for saving images and files of the applications hosted as an user defined service in PCF.
- Optimized queries for fetching records from curated Hive tables, invoked flask endpoint wrapper on Python ML model using Rest-Template and integrated output through callback mechanism to frontend Angular component.
- Won Tech award for innovation for productionizing python model with IIOT platform in PCF.

Software Development Engineer – NCS Pearson

June 2016 – May 2019

- Implemented Service Oriented Applications using web services and developed REST APIs utilizing Spring and Hibernate
- Designed and implemented Spring Boot Microservices for search and indexing data into backend MongoDB.
- Analyzed and implemented POC to gauge regional expenditures in K-12 schools utilizing Python libraries.
- Mentored offshore team for biweekly sprint deliverables, maintained code review standards using version control like Bitbucket, code quality using SonarQube and CICD pipelines using Jenkins.

Full Stack Developer Intern – Biodesign Institute, Arizona State University

May 2015 – Aug 2015

- Prototyped a health recommender MEAN stack application that maps disease risk factors with biosensor device features and generated a mapping algorithm to prescribe devices based on patient profile.

Programmer Analyst Trainee - Cognizant Technology Solutions

Nov 2013- Jun 2014

- Enhanced performance after migrating legacy application to new Spring MVC platform for existing customer portal.
- Implemented security features that includes PKI, OTP, HTTPS, virtual keyboard, user access control and validations.

Academic and Research Projects

Sentiment Analysis on Game of Thrones Season 8 Tweets

May 2019

Analyzed sentiments of different characters by calculating polarity scores and predicted season outcome. **Tools:** Python, Anaconda, Pandas, Tweepy API, Textblob, Scikit learn ML library, NLTK, TF-IDF vectorizer

Mission to Mars

Mar 2019

Implemented Flask App to render scraped Mars related data from NASA website and display the information in a single page application. **Tools:** Jupyter Notebook, BeautifulSoup, Pandas, Splinter, PyMongo and Flask.

Geo-Spatial Operations using Apache Spark Cluster in Hadoop Distributed File System

Jan 2015 - May 2015

Performed geo spatial operations like Spatial range, join query, convex hull in distributed Apache Spark framework using HDFS. Experimented across multiple nodes with large datasets. **Tools:** Java, PostgreSQL, Spark Java API and Java RDDs, Ganglia

Implementation of Data Partitioning techniques, Query processing operations

Jan 2015 - May 2015

Analyzed Movie-Lens dataset with 10M records to implement range and RR partitioning and implemented parallel sort and parallel join operations on partitioned tables. **Tools:** Python and PostgreSQL

Service oriented Application using RESTful Web Service

Aug 2014- Dec 2014

Hotel Web Service application in ASP.NET utilizing RESTful web services, cookies, session management, user controls, form security. The application was hosted on IIS consuming WCF web service and XML database.

Online Inventory System

Dec 2011- Jan 2012

Devised an online portal for maintaining records related to purchase and sales. **Tools:** Java, J2EE, HTML, CSS, JSP, Oracle 10G

Education

Data Science Analytics (Certificate Course) University of Arizona, Phoenix, AZ, USA

May 2019

MS in Computer Science – Arizona State University, Tempe, AZ, USA

May 2016

B-Tech in Computer Science and Engineering, West Bengal University of Technology, India

July 2013