

## UMANG J GALA

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## SKILLS

## Programming

Java • React • Angular •  
Typescript • Python • C/C++  
• Shell / Bash • SQL • JavaScript  
• HTML5 • CSS • PHP

## Framework &amp; APIs

Kafka • Spark - Stream / SQL •  
Zookeeper • Avro • Protobuf •  
Spring • Hadoop • Parallel Java 2  
• JUnit

## Platform

AWS - EC2, Lambda, S3, DDB,  
SQS, SNS, Cloudwatch, etc •  
Kubernetes • Docker • Cloudera  
• Android

## Software Tools

IntelliJ Idea • VS Code • AWS CLI  
• Gradle • Maven • Jenkins • GIT  
• GitHub • Oracle • Weka • R

## OS

Mac OS • Windows • Linux • Ras-  
bian OS

## CERTIFICATION

## Cloud

AWS Cloud Practitioner  
Microsoft Azure Fundamentals

## EDUCATION

## Rochester Institute of Technology

M.S. in Computer Science  
CGPA - 3.29  
May 2015 | Rochester, NY

## K J Somaiya College of Engineering

B.E. in Informational  
Technology  
Aggregate - 66%  
May 2013 | Mumbai, India

## EXPERIENCE

## Amazon | Software Development Engineer II

May 2021 - Feb 2023 | Hyderabad, India

- Designing and implementing customer facing system that supports data labelling for ML scientists to train and develop their AI models. System supports end to end flow from requesting labelling to deliver quality labelled data. (AWS services like EC2 / Lambda / SQS / DDB etc, Java, Python, React)
- Designing and implementing common UI framework for integrating custom plugins to the UI platforms (Javascript, Typescript, React, HTML, CSS)
- Developed microservice based backend architecture to enable secure access to Alexa's data from the internal data warehouse tool protecting the customer privacy (Java, Javascript, AWS - API Gateway)
- Developed a feature within the data labelling system to support photo / video data labeling that helped developed ML models on visual data. (Java, AWS)
- Collectively working with AWS team to evolve the AWS offerings for internal and external customers by designing and implementing core platform features for ML scientist (Java, Javascript, React, AWS)
- Mastered software engineer using Agile methodology by participating in product backlog grooming, sprint planning, review and retrospective
- Mentor new software engineers in their transition to the team/firm & help develop their professional career

## JP Morgan Chase &amp; Co. | Senior Associate - Software Engineer

Feb 2019 - May 2021 | Newark, DE

- Development of distributed data lake application purely driven by metadata for easy usability and scalability (Kubernetes, Spark, Java, Kafka, Avro, Protobuf)
- Developed a Model Transformation application that converts any input data model to specified output model with data lineage (Spark Stream/SQL, Java, Avro)
- Development and test distributed application changes using disciplined software development processes (Java, Kafka, Zookeeper, Avro)
- Adherence to Development Life Cycle, IT controls and change control policies for all developments
- Day-to-day maintenance of the application system in operations, including tasks related to identifying and troubleshooting application issues and issues resolution or escalation
- Application maintenance activities in catering to ad-hoc work requests and implementing change requests

## JP Morgan Chase &amp; Co. | Associate - Software Engineer

Feb 2015 - Jan 2019 | Newark, DE

- Developed and tested demo examples for beta release of a new upcoming System Toolbox.
- Developed metadata driven web application for data browsing (Angular, Java Rest API)
- Developed application framework for data landing, scalable by configuration
- Developing a new feature to the application using Java Spring framework (Java, Spring, MQ, Pentaho)
- Developed an automated script to scan the application repository for any vulnerabilities (Bash, Unix)
- Responsible to conduct knowledge sharing session within/outside team to increase code reusability
- Developed various reports using Pentaho ETL tool (Java, Pentaho, Oracle)
- Volunteered as Tech Lead to develop and successfully deliver a web application for a non profit organization partnered with JP Morgan

## INTEREST

Reading • Travelling • Writing • Problem Solving • Photography • Volunteering

## COURSEWORK

### Graduate

Parallel Computing  
Data Security & Privacy  
Distributed Systems  
Computer Networks  
Cryptography  
Neural Networks  
Machine Learning  
Big Data  
Algorithms

### Undergraduate

Information & Network Security  
Software Engineering  
Object Oriented Programming  
Data Structures  
Database Technologies  
Micro controllers and processors

## EXPERIENCE

### JP Morgan Chase & Co. | Software Engineer - Intern

Jun 2014 - Aug 2014 | Newark, DE

- Developed a module for the Back office application using Ext.Js and Java Spring framework
- Developed a program that processes hundreds of thousands of entries in more efficient way to increase the performance (Java, SQL)
- Developed a automated testing infrastructure for the application using Selenium Java API
- Developed a program to generate test reports automatically (Java)
- Responsible for maintaining and upgrading the virtual environment for application testing (Unix)

### Rochester Institute of Technology | Graduate Assistant - System Admin, CS Department

Aug 2014 - Apr 2015 | Rochester, NY

- Responsible to setup Hadoop cluster environment in the lab
- Responsible to maintain/upgrade CS department servers, lab machine and user accounts
- Developed a script to automate used disk space calculation for faculty/user accounts (Unix, bash, C shell)
- Responsible for solving/supporting real time technical problems faced by faculties, staffs and students

## PROJECTS

### Indoor Localization Aug 2014 – May 2015

A mobile application that locate an object or a people inside a building using Received Signal Strength (RSS) from already deployed WiFi access point, as GPS is not suitable for indoor condition. It also help getting direction in huge indoor environments like schools, malls, airports, etc. Technologies used Android, Java & C++

### Hybrid Parallel Logistic Regression Sep 2014 – Nov 2014

Used the Parallel Java 2 library to implement parallel logistic regression for machine learning. Ran experiments on a 10-node cluster parallel computer using very large and very sparse data-sets (3 million records against 2 million features). Technologies used Java, PJ2 Java library

### Stock Recommendation Model Feb 2014 – Apr 2014

A system that recommends the stocks to users based on the current stocks in their portfolio. The system uses k means clustering algorithm on historical NASDAQ data to cluster the stocks. Technologies used MySQL database, SQL, Weka & PHP

### Real-Time Editing System Sep 2012 – Apr 2013

A groupware system that allows group of users to view and edit the one document at real time. A user can create or upload a document and invite other users to contribute to that document. It provides access privileges settings to the owner of the document. Technologies used PHP, HTML, CSS, JavaScript, JQuery, Node.js & SQL

### Information Sharing Aug 2014 – May 2015

A web application where users can create groups and share information or documents with individual or groups. It has a real time chat room to conduct online meetings. Technologies used JSP, Servlet, Javascript, HTML, CSS and SQL

### Trivial File Transfer Protocol Aug 2014 – Nov 2014

Implemented TFTP used to transfer files that runs on top of UDP. This TFTP protocol is based on RFC-1350. Technology used Java