

DISHA PATEL

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EDUCATION

Santa Clara University

September 2022 - March 2024

Master of Science in Computer Science & Engineering

Santa Clara, CA

Coursework: Advanced Operating Systems, Computer Architecture, Solutions and Architecture Cloud

College of Engineering Pune

August 2016 - May 2020

Bachelor of Technology in Information Technology & Minors in Financial Engineering

Pune, India

Coursework: Data Structures & Algorithms, Distributed Systems, Database Management Systems, Data Mining

WORK EXPERIENCE

Citicorp

Pune, India

Technology Analyst: C10

August 2021 - August 2022

- Developed several technical functionalities for TRON (a SpringBoot microservice framework) like integration of certificates from VENAfi, building docker base images for common functionalities, etc.
- Implemented support for Java based web services (gRPC, HTTP, E-mail) utilizing Docker, Kubernetes, Gradle, Git / GitHub, Jenkins and the Atlassian collaboration suite.
- Worked proactively to create Rsocket SpringBoot server-client microservices that communicated using WebSocket messaging protocol for streaming messages in the low latency environments.
- Enhancing TRON, with all the above mentioned functionalities, led to ease in deployment of any microservice over the ECS within few hours.

Technology Analyst: C09

August 2020 - August 2021

- Designed and developed the entire backend system of Broker Recon from scratch which automated the reconciliation of confirmation of trades sent by Brokers against the trades booked in the Openlink System of CITI.
- Broker Recon Project, which was a failure in 2017, on automation gave 80% success rate for OTC Trades and 70% success rate for the Exchange Trades bringing down the reconciliation time from 8-10 hours to approximately 2 hours.
- Involved in the task to automate the release process for the Straight Through Processing Application using UrbanCodeDeploy and ServiceNow which reduced the deployment time of the application from 5-6 hours to approximately 20 minutes.
- Architected the microservice framework for Order Matching System which was responsible for matching buy and sell orders of the stock market.

Barclays

Pune, India

Software Development: Intern

May 2019 - July 2019

- Transformed the employee management process, which was done manually using the excel sheets, by developing an utility tool using Java and MS Access as database.
- Completed a White Paper on Credit Scoring using Data Mining Techniques and implemented it using WEKA Tool for Data Mining.
- Trained myself on Salesforce platform and earned 5 badges and 4900 points & hence achieving rank of EXPLORER in the Salesforce Trailhead.

TECHNICAL SKILLS

Languages: Java, C++, Python, C, SQL, Powershell scripting

Tools: Kubernetes, Docker, Openshift, Jenkins, Amazon ECS, IBM UrbanCodeDeploy, Confluence, GIT, JIRA, WEKA

Framework / Libraries: SpringBoot, Microservices, Reactive Programming, Spring Webflux, gRPC, Protocol Buffers, Apache Hadoop, Apache Spark, Machine Learning, Data Mining

PROJECTS

Auto - tuning of Hadoop and Spark Parameters | *Hadoop, Spark, Machine Learning*

August 2019 – May 2020

- Automatically tuned the parameters, selected by feature selection algorithm, and investigated the impact of those parameters on the performance of the job.

Gender Determination using Facial Recognition | *Object Detection, Android Studio*

January 2019 - May 2019

- Designed an android application which clicks the photo and determines the gender of a person.

PUBLICATIONS

Auto - tuning of Hadoop and Spark Parameters: arXiv:2111.02604 [cs.DC]

ACHIEVEMENTS & VOLUNTEERING

- Received one CITI GOLD, one CITI SILVER, two CITI BRONZE & CITI Applause Awards.
- Order Matching System Project was ranked in Top 5 out of 14 projects.
- Active volunteer in Citizenship Initiative taken by Barclays.
- Secured 4th place all over India in the course of Randomized Algorithms conducted by IIT Guwahati.
- Received Scholarship by Reliance Foundation for undergraduate studies.