

# DISHA PATEL

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## Education

**Santa Clara University**

September 2022 - March 2024

**Master of Science in Computer Science; GPA: 3.82/4.0**

*Coursework: Distributed Systems, Design & Analysis of Algorithms, Cloud Computing, Solutions and Architecture Cloud*

**College of Engineering Pune**

August 2016 - May 2020

**Bachelor of Technology in Information Technology & Minors in Financial Engineering**

*Coursework: Data Structures & Algorithms, Operating Systems, Database Management Systems, Data Mining*

## Technical Skills

**Languages:** Java, Kotlin, C++, Python, C, SQL, Angular, TypeScript, Powershell Scripting

**Developer Tools:** GIT, Jenkins, Docker, Kubernetes, Openshift, Amazon Web Services, Google Cloud Platform, Postman, IBM UrbanCodeDeploy, Confluence, JIRA, WEKA

**Framework & Libraries:** SpringBoot, Microservices, REST API, Async API, Reactive Programming, Spring Webflux, gRPC, Protocol Buffers, Prometheus, Grafana, Terraform, Elasticsearch, MongoDB, MySQL, Swagger, Hadoop

## Work Experience

**LiveRamp**

June 2023 - September 2023

**Software Engineer Intern**

- Designed and implemented an asset activity history module on Google Pub/Sub channels, capturing 30 distinct internal and external events across 10 assets.
- Achieved a 70% enhancement in data tracking capabilities through the successful implementation of the asset activity history module, enabling comprehensive event monitoring.
- Deployed OpenTelemetry agents via Terraform on Kubernetes cluster, facilitating extensive application metric monitoring and strategically setting up error reporting alerts to fortify and optimize system reliability.
- Designed and created Grafana dashboards to visualize diverse application metrics across numerous microservices, fostering intuitive data interpretation and actionable insights.

**Citi**

August 2020 - August 2022

**Software Developer**

- Developed several technical functionalities for a SpringBoot microservice framework using gRPC, HTTP, Docker, which led to ease in deployment of any microservice over the Amazon ECS within a few hours.
- Built and optimized high-performance Rsocket SpringBoot microservices for server-client communication in low latency environments, utilizing WebSocket messaging protocol for seamless message streaming.
- Automated the release process for the Straight Through Processing Application using UrbanCodeDeploy and ServiceNow which reduced the deployment time by 90%.
- Designed and developed the entire backend system of Broker Recon Project from scratch which reduced the reconciliation time from 8-10 hours to 2 hours.
- Broker Recon Project, which was a failure in 2017, on automation gave 80% and 70% success rate for OTC Trades and Exchange Trades respectively.

**Barclays**

May 2019 - July 2019

**Software Developer Intern**

- Transformed the employee management process 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.
- Self taught the Salesforce platform and earned 5 badges and 4900 points & hence achieving rank of EXPLORER in the Salesforce Trailhead.

## Projects

**SmartNIC Powered Blockchain Infrastructure | *Blockchain, Network Optimization***

November 2022 – March 2023

- Developed the new infrastructure for the blockchain application by multi-threading the Proof of Work which utilized all the cores of SmartNIC as well as leveraged its advantages of offloading and edge processing.

**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. [\[Link\]](#)

## Memberships

Rewriting the Code, Grace Hopper, Society of Women Engineers (SWE), Women Who Code