ABHA CHAUDHARY

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EDUCATION

Binghamton University, SUNY, School of Computing
Doctor of Philosophy in Computer Science, GPA: 3.74/4.00 *Aug 2023-Present*
Relevant Coursework: Compiler Design, Advanced Object-Oriented Programming, Machine Learning

Master of Science in Computer Science, GPA: 3.81/4.00 *Aug 2019-May 2021*
Relevant Coursework: Data Mining, Programming Languages, Computer Architecture and Organization, Design Patterns, Programming for Web Development, Advanced topics in Cloud Computing, Introduction to Distributed Systems, Design and Analysis of Algorithms and Operating Systems

Dr. D Y Patil School of Engineering & Technology, Pune, India (affiliated with Pune University)
Bachelor of Engineering, Computer Engineering, GPA: 3.50/4.00 *June 2012-July 2016*

PROFESSIONAL EXPERIENCE

Software Development Engineer - 1 | *Amazon.com LLC, Seattle, USA* *July 2021-March 2023*
- Designed and developed a solution to transfer data from Amazon S3 bucket to Amazon Redshift database using Kotlin and other AWS services like EventBridge, Step functions, etc., which minimized cross team dependencies
- Developed a solution to automate Api Gateway endpoint service calls to reduce manual intervention by 90%
- Developed an application that helps to onboard customers to amazon internal site for improving operational workload using React, Kotlin, AWS API Gateway and Lambda functions.
- Performed operational tasks to continuously improve developed applications

Software Engineer | *Atos-Syntel Private Limited, Pune, India* *July 2016-June 2019*
- Built a web application to make entries into database using RESTful web service and angular 2, hence reducing manual effort of creating a batch process by 90%
- Migrated previously developed application to Java from Cobol using legacy tool improving overall performance by 2x while reducing defects by 25%, hence providing improved quality of product
- Developed a distributed application which interacts with microservices via data pipeline implemented using message queues, RESTful web services to visualize insurance data of 10,000+ companies and automate the task of data analyst, which allowed businesspersons to use dashboard directly and visualize analysis. Reduced four working hours per day
- Performed TDD and improved code coverage by 100%
- Collaborated with clients and onshore teams to understand business requirements and produce timely deliverables by following software development lifecycle

Software Engineering Intern | *Tata Communication Limited, Pune, India* *Sept 2015-Feb 2016*
- Developed an application to find maximum similarity between different datasets by applying supervised learning using Java, Jdbc, MySQL which reduced manual effort by 50%

PROJECT EXPERIENCE

Cassandra-like Distributed Key-Value Store | *Java, Apache Thrift, Protocol Buffers* *Fall 2020*
- Built a Distributed Key-Value store like Facebook's paper on Cassandra Database with configurable consistency, following principles of CAP theorem
- Implemented features such as configurable consistency for read/write operations, fault tolerance by implementing hinted handoff and log-based failure recovery ensuring high availability even during the failure of multiple servers

Chord-based File Storage System | *Java, Apache Thrift, Protocol Buffers* *Fall 2020*
- Implemented a file storage system using Chord distributed hash table protocol with file upload and download functionality

COVID Info Serverless Website | *JavaScript, AWS* *Fall 2020*
- Created a serverless COVID-19 tracker website by integrating API gateway with AWS Lambda functions, s3 and DynamoDB
- Provided easy search application for COVID-19 testing location throughout the New York state
- Implemented auto-scaling group with load balancer to scale up and scale down a distributed system based on number of requests received to increase availability