

Tejas Bhitle

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EDUCATION

University at Buffalo, The State University of New York

Buffalo, NY

Master of Science in Computer Science and Engineering — GPA **3.81/4**

(Expected) December 2023

Relevant Coursework — Distributed Systems, Operating Systems, Algorithms, Machine Learning

University of Mumbai (Sardar Patel Institute of Technology)

Mumbai, India

Bachelor of Engineering in Computer Science — GPA **8.4/10**

May 2019

PROFESSIONAL EXPERIENCE

Morgan Stanley — Senior Associate (Technology)

Mumbai | June 2021 — July 2022

- Engineered a reconciliation platform handling **10 million records** daily, based on Spring, Angular, and DB2.
- Transformed tasks (translations, lookups, filters, etc.) of workflow into a Directed Acyclic Graph and wrote a custom **Topological Sort Algorithm** for ordering those API calls, improving workflow runtime by 65%.
- Reviewed and standardized over 15000 production jobs on Autosys with Python/Bash scripts, resulting in better audits.

Barclays — Analyst (Technology)

Pune | July 2019 — June 2021

- Managed project of multiple trade engines & services leveraging **Spring**, improving MIFID-2 reporting SLA by 20%.
- Performed **Apache Kafka** migration across all services, decoupling 3 major gradle projects, & automated testing.
- Automated VoltDB deployment** on Unix/Windows servers with Bash/Batch scripting, reducing manual work by 80%.
- Compiled & configured **CI/CD pipelines** via Jenkins & Bash scripts to streamline software builds and deployment.
- Received Barclays Recognition Program Award** for end-to-end delivery of a Spring Batch workflow within 3 weeks.
- Conducted interviews in recruitment drives and took initiative in training 4 new hires in team.

Morgan Stanley — Summer Intern

Mumbai | May 2018 — July 2018

- Restructured a client-facing website in **Angular/Ionic**, enabling mobile responsiveness.
- Handled live streaming data with **RxJS** and lazily loaded UI components, leading to a 70% reduction in start-up time.

Toast — Lead Android Developer Intern

California (Remote) | May 2017 — October 2017

- Spearheaded a team of 3 in making an Android app and applied **Geo-Fencing** to find nearby parties.
- Created custom iOS alike View components to meet client's UI/UX requirements.

RESEARCH EXPERIENCE

Dept of Nuclear Medicine — Research Assistant

University at Buffalo | May 2023 — Present

- Modeling an Imaging based Computational System for Photon Emission Breast Tomography, utilizing **C++** and **CUDA**.

PROJECTS

Distributed Systems Algorithms — GoLang

March 2023

- Developed Leader Election and Log replication protocol to achieve RAFT consensus among peers.
- Built Chandy-Lamport algorithm to perform distributed snapshots and Map-reduce logic to perform parallel processing.

FoodCourt — React-Native Mobile SDK, Django DRF, AWS, Firebase Cloud Messaging

March 2023

- Devised Android/iOS apps and backend for a Social Media Start-up targeting Foodies and Chefs.
- Implemented Django channels for multi-user recipe sessions, FCM Push Notifications, and refactored to JWT Auth.
- Hosted Django backend on AWS EC2, RDS, S3 and configured Redis on EC2 instance for channels.

Chehra — Android, Django DRF, Machine Learning

March 2018

- Captured class images & marked students' attendance using Facial Recognition Attendance Management System.
- Designed database schema, backend APIs, two Android clients for students & teachers, ML models (FaceNet & DLib).
- Published Research Paper** on "Automated Facial Recognition Attendance System leveraging IoT Cameras, [IEEE \(8776924\)](#)".

SKILLS

- Programming — Java, Python, C, C++, Kotlin, Go, TypeScript, SQL, Bash (Linux), Javascript
- Tech Stack — Android, Spring MVC, Django, Flask, Angular 6, React, DB2, PostgreSQL, MongoDB, Tensorflow
- Tools — Elasticsearch, Apache Kafka, Firebase, AWS, Hadoop, Docker, Matlab, Kubernetes, Git, Swagger, Postman
- Soft skills — Agile, Leadership, Attention to Detail, Decision Making, Team Player, Continuous Learning, Innovation