Tejas Bhitle

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PROFESSIONAL EXPERIENCE

Morgan Stanley — Senior Software Developer   **Mumbai | June 2021 — July 2022**
- Engineered a high-performance reconciliation platform handling 10 million records daily, based on Spring, Angular, and DB2.
- Modeled tasks (translations, lookups, filters, etc.) of workflow as a Directed Acyclic Graph and wrote a custom Topological Sort Algorithm for ordering those API calls, improving workflow runtime by 65%.
- Enhanced production job management and auditing by standardizing over 15000 jobs on Autosys with Python/Bash scripts.

Barclays — Software Developer   **Pune | July 2019 — June 2021**
- Managed project of multiple trade engines & services leveraging Spring, improving MIFID-2 reporting SLA by 20%.
- Migrated messaging infrastructure to Kafka across services, decoupled 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.
- Recognized with Barclays Recognition Program Award for end-to-end delivery of a Spring Batch workflow within 3 weeks.
- Contributed to team growth by conducting interviews in recruitment drives and training 4 new hires.

Morgan Stanley — SDE Intern   **Mumbai | May 2018 — July 2018**
- Revamped the ETP platform in Angular/Ionic, enabling seamless mobile user experience for Institutional Securities Business.
- Streamlined live data handling with RxJS and lazily loaded UI components, leading to a 70% reduction in start-up time.

Toast — Android Intern   **Remote | May 2017 — October 2017**
- Spearheaded a team of 3 in making an Android app that allows users to discover and join parties nearby.
- Leveraged Google Maps API to geo-fence and display nearby party locations, and integrated Stripe Payment API.
- Created MVVM architecture and custom view components for feed, party hosting, and party joining screens.

EDUCATION

University at Buffalo, The State University of New York   **(Expected) December 2023**
Master of Science in Computer Science and Engineering — 3.81/4.0   New York, US
Relevant Coursework — Distributed Systems, Operating Systems, Algorithms, Blockchain, Machine Learning

University of Mumbai (Sardar Patel Institute of Technology)   **May 2019**
Bachelor of Engineering in Computer Science — 8.4/10   Mumbai, IN

PROJECTS

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

Distributed Systems Algorithms — Go
- 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 for parallel processing.

Chehra — Android, Django Rest Framework, Machine Learning
- 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 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, Clojure
- Tech Stack — Android, Spring MVC, Django, Flask, Angular, React, DB2, PostgreSQL, GraphQL, Tensorflow, Spark, Elasticsearch, Apache Kafka, Google Cloud Platform, GCP AWS, Hadoop, Docker, Matlab, Kubernetes, Git, Swagger, Gitlab
- Soft skills — Agile, Leadership, Attention to Detail, Decision Making, Team Player, Continuous Learning, Innovation

CO-CURRICULAR

- Research Assistant for Nuclear Medicine, Modeling an SPECT-based Computational System utilizing C++ and CuDa.
- Teaching Assistant for Distributed Systems at Computer Science Department for Fall 2023 Semester.