Tejas Bhitle

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ACADEMICS

State University of New York at Buffalo — Aug 2022 — Present

Masters in Computer Science
Relevant Coursework — Algorithms, Distributed Systems

Sardar Patel Institute of Technology — Jul 2015 — May 2019

Bachelor in Computer Engineering — GPA: 8.4/10 — University of Mumbai
Relevant Coursework — Data Structures, DBMS, Operating Systems, Computer Organization & Architecture.

INDUSTRY EXPERIENCE

Morgan Stanley — **Senior Associate (Technology)** — Mumbai, India | Jun 2021 — Jul 2022
• Designed an in-house Spring-based reconciliation platform. Developed several features like multiple input sources, 1:M & M:M matching, filters, translators & lookups, configurable through Angular-based GUI.
• Also worked as **Summer Intern** (May - Jul 2018), rewrote UI based on Ionic. Optimized several areas like using RxJS to lower the overhead of live data & reusing heavy UI components to reduce startup time by ~70%.

Barclays — **Analyst (Technology)** — Pune, India | Jul 2019 — Jun 2021
• Wrote APIs & business logic for Spring based post-trade engines under MiFID-2 reporting.
• Automated VoltDB deployment on Unix & Windows servers using Shell & Batch, reducing the manual efforts.
• Implemented topic based message routing using Apache Kafka & Camel, making architecture event-driven.

Toast Inc — **Developer Intern (FreeLance)** — California (Remote) | Mar 2017 — Nov 2017
• Developed Android app to host & find nearby parties using Geofencing, also fulfilled the iOS alike UI needs.
• Wrote backend APIs using Django framework & hosted it to Amazon Web Services.

NOTABLE PROJECTS

Emotion Recognizer — Undergraduate Final Year Thesis on Emotion Recognition — Team of 3
Built a multimodal system based on facial expressions, voice & words spoken. The initial stage involved fusion of Text & Image modules to determine the initial emotions hypothesis, followed by the 2nd stage using audio to determine exact emotion or sarcasm. Used LSTM based CNN model, GLoVe, Canny edge detection & LBP.

Chehra — A low-cost Facial Recognition based Attendance Management System POC — Team of 4
Captures multiple faces from classroom pictures & marks their attendance. Built ML models (FaceNet & dlib), a Django backend, 2 Android client apps (for teachers & students each) & integrated IoT Camera modules.

Encrypto — Android app for Virtual stock market event for college event. — Team of 2
Supports dynamic variation in cryptocurrency prices, real-time features like leaderboard, transaction history. Used Firebase for datastore, authentication & to handle concurrent transactional updates from Android app.

TECHNICAL SKILLS

Languages: C/C++, Java, Python, SQL, Kotlin, Go
Technologies: Spring Boot, Android, Angular, Django
Tools: Firebase, Git, Linux/UNIX

RESEARCH PAPERS

• Automated Facial Recognition Attendance System leveraging IoT Cameras, IEEE (8776924)
• Multi-Stage Single Modal Systems to recognize Primary Emotions, Secondary Emotions & Sarcasm, drafted

POSITIONS OF RESPONSIBILITY

Teaching Assistant at S.P.I.T. for Data Structures under Principal Dr. Prachi Gharpure.

Training & Placement Coordinator at S.P.I.T. handled the campus placements, created industry relations & guided students

Head of Operations at S.P.I.T.: Led the organizing team to manage the Cultural & Tech fest.