

# Ruturaj Tambe

Software Engineer | Performance Engineer | Aspiring Intern | TEDx Performer  
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Software Engineer with 5+ years of experience in distributed systems, performance engineering & cloud infrastructure.

## EDUCATION

### New York University Courant School of Mathematics & Stern School of Business

New York, USA

Master of Science in Information Systems

May 2026

Database Systems, Data Communication Network, Foundation of Finance, Marketing

### MIT, Savitribai Phule Pune University

India

Bachelor of Engineering in Computer Science and Engineering

Aug 2015 - June 2019

Data Structures & Algorithms, Theory of Computation, Web Technology, Cloud Computing, High Performance Computing

## SKILLS

**Programming :** Python, Groovy, Golang, Java, HTML, CSS, JavaScript, Android Development, MySQL

**Frameworks & Libraries:** Google Apps Script, PassKit API, NumPy, Pandas, Matplotlib, scikit-learn, React, Linux

**Performance Engineering:** JMeter, Locust, API/Database Optimization, Query Profiling (Datadog, Splunk, Postgres, Redis, Kafka), Client-side Analysis (Lighthouse, Fiddler, Google Dev-Tools), Test Case Development, System Profiling

**Cloud & DevOps:** Microsoft Azure, AWS, Kubernetes, Docker, YAML, Jenkins, Git, Firebase, Azure Data Studio

Leadership, Project Management, Agile Methodology, Team Collaboration, Jira, Google & MS Office Suites

## WORK EXPERIENCE

### Avaya Software Engineer - Research and Development

India

CCAAS Analytics Team

Feb 2023 - May 2024

- Spearheaded load emulation & PR regressions for 22 microservices, **improving system performance by 375%**.
- Designed scalable distributed systems using Golang & Python, handling **100K+ chat & 20K+** voice transactions/hr. Developed solutions with scalability plans for **500K transactions/hr**, ensuring fault-tolerant and efficient systems.
- Performed capacity planning, **reducing operational costs by \$4,275+ monthly** through Azure Labs migration & collaborated with lab owners to optimize Datadog log management, achieving savings of **\$64,200** within 3 weeks
- Debugged and resolved **70+ performance bottlenecks** across microservices, ensuring system stability & fault-tolerance.
- Designed high-load environments, resolved 35+ critical issues (CPU spikes, OOM kills, Redis balancing, Postgres lag), while bug fixing and optimizing distributed architecture using Java and Spring Boot.

**Awards:** Monetary appreciation for exceptional cross-functional collaboration across engineering & DevOps teams.

### Zensoft Services Pvt. Ltd. - Performance Engineer Team Lead

India

POC and Performance

July 2019 - Feb 2023

- Led performance engineering for 20+ projects, achieving 500% improvement in response time & 10x user concurrency. Mentored team, reducing onboarding from 1.5 months to 1 month & scaling team from 5 to 23.
- Implemented "shift-right" approach, reducing performance testing cycles by **25%** and saving one day per sprint
- Automated Azure DevOps pipelines, cutting deployment cycle time by **76%** (from 1h 45m to 25 minutes)
- Developed a YAML-based BlazeMeter pipeline, cutting performance setup time by **98%**, from 30-45 min to 1 min.
- Optimized client-side performance by reducing latency by **90%** through strategic caching and file size reduction

**Awards:** Annual Super Squad & Spot Appreciation Award:- Effectively managing multiple challenging projects.

## PROJECTS

- **Digital Pass System:** Engineered a full-stack digital pass management system using Google Apps Script and PassKit API. Automated coupon generation, integrated digital wallets, and designed a responsive UI for cross-platform compatibility on iOS and Android. (Tech: Google Apps Script, PassKit API, HTML/CSS, JavaScript)
- **Dynamic User Segmentation System:** Designed and implemented an end-to-end database system with normalization, indexing, and clustering. Integrated a K-Means machine learning model to dynamically segment users and built a Python-based full-stack application to apply real-time discounts based on user behavior. (Tech: Python, MySQL, K-Means)
- **Smart Irrigation System (IEEE Sponsored):** Led team of 4 to design IoT-based irrigation solution using Python, Raspberry Pi, and Firebase. Developed real-time water quantification and automated irrigation scheduling system

## POSITIONS OF RESPONSIBILITY

- **Core Committee Member (Texephyr & MCUG)** Delivered results by managing logistics, team and cross functional collaboration, and stakeholder communication for national-level hackathons, fostering teamwork and ownership.
- **Cultural Head (MIT Pune)** Led a team of 200+ to organize 15+ large-scale events, ensuring impactful engagement.