

Ruturaj Tambe

Software Engineer | Performance Engineer | Aspiring Intern | TEDx Performer
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Software Developer 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, Fundamental Algorithms, Robo Advisors and Systematic Trading, 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.
- 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.

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

POC and Performance

July 2019 - Feb 2023

- Led performance engineering for 20+ projects, achieving up to 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

- **Financial Market Analytics:** Explored [volatility](#), [risk](#), [trend](#), and counter trend analysis for Nifty 50 & S&P 500, developing systematic trading strategies using Python. (*Tech: Python, NumPy, Pandas, Matplotlib*)
- **Digital Coupon Management System:** Developed 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*)
- **E-commerce User Segmentation:** Developed a database system with normalization, indexing & clustering, integrating a K-Means model for real-time user segmentation & dynamic discount application. (*Tech: Python, MySQL, K-Means*)
- **Smart Irrigation System (IEEE Sponsored):** Led a team to develop an IoT-based irrigation solution with Python, Raspberry Pi & Firebase, automating water quantification & irrigation scheduling.

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.