

Ruturaj Tambe

Software Engineer | Performance Engineer | 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

Relevant Coursework: Foundation Of Finance, Robo Advisors and Systematic Trading, Digital Strategy, Marketing(Audit), Machine Learning(Audit) Fundamental Algorithm, Database Systems, Data Communication Network

MIT, Savitribai Phule Pune University India
Bachelor of Engineering in Computer Science and Engineering Aug 2015 - June 2019

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

SKILLS

Programming & Development: Python, Groovy, Golang, Java, Shell Scripting, SQL, HTML, CSS, JavaScript, Android Development, Web Development

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

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

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

Project Management & Leadership: Agile Methodologies, Stakeholder Communication, Cross-functional Team Coordination, Risk Assessment, Project Planning, Resource Allocation, Time Management, Team Mentorship

Collaboration & Communication: Conflict Resolution, Stakeholder Engagement, Decision Making, Presentation & Reporting, Team Collaboration

Soft Skills: Leadership (Mentoring, Resource Planning, Project Management), Strategic Planning, Data-Driven Decision Making, Cost Optimization, Capacity Planning, Google Suite & Microsoft Office Suite (Word, Excel, PowerPoint)

Business & Analytical Skills: Strategic Planning, Data-Driven Decision Making, Cost Optimization, Capacity Planning

Arts: Light Art, Sand Art, Ebru, Graffiti, Plays

WORK EXPERIENCE

Avaya Software Engineer - Research and Development

CCAAS Analytics Team

Feb 2023 - May 2024

- Spearheaded load emulation, PR regression testing, and reporting for 22 microservices, achieving a 375% improvement in system performance
- Directed capacity planning, resource management, and cost optimization while providing strategic support to the product architect
- Emulated a contact center solution in a pre-production environment using Golang, Python, shell script, and Locust
- Collaborated with lab owners to **save USD 64.2K** through Datadog log management in the first 3-week timeline.
- Performed ETL enhancements, **increased customer support to 300 tenants** and devised plans for 500
- Debugging issues in the performance labs. Components include:- Avaya products, SIL solution, **Aiven Kafka, Datadog, Docker, Kubernetes**, integration issues, and issues that may hamper the functionality.
- Created and stabilized environments to **handle a load of 100k+ chat transactions and 20k+ voice transactions per hour**. Devised plans for 500k transactions per hour.
- Proactively identified issues related to CPU, OOM kills, Redis Load, Postgres issues, consumer lag, etc.
- Performed minor bug fixes in the product using Java and Spring Boot.

Awards and Recognition:- Received monetary appreciation for exceptional collaboration and teamwork

Zensoft Services Pvt. Ltd. - Performance Engineer

POC and Performance

July 2019 - Feb 2023

- **Team Lead Responsibilities:-** Requirement gathering, PI planning meeting, script creation, execution, report analysis, collaborating with dev to resolve bottlenecks, stakeholder presentation (QA/Dev/Infra/Business teams).
- Worked on **20+ small, medium, and complex projects** resulting in performance **improvements up to 500% in response time and 10x in user concurrency**.
- Implemented the "shift right" approach and assessed production data for workload modeling.
- Pipeline creation in ADO with the L3 devops team is to be triggered in sync with deployments.
- Created custom script for multiple certificate logins, dynamic correlation, parameterization, error, and data handling
- Spearheaded resource Training and interviews. Structured KT processes and training content
- Led POCs and converted them to full-fledged projects.
- Worked on a proof of concept (POC) to create and integrate a YAML-based pipeline for BlazeMeter in Azure.
- Conducted capacity planning based on server metrics and user load analysis.
- Possess comprehensive knowledge of end-to-end performance testing processes, including client-side analysis.
- Experienced with protocols such as Web Services and Web-HTTP/HTTPS/SFTP in JMeter.
- Proficient in conducting Baseline Testing, Load Testing, and other testing scenarios using JMeter.
- Adept at test scripting, test scenario creation, test execution, and the reporting and analysis of results.
- Skilled in monitoring resources such as CPU and memory under load, API-level response times for each transaction, microservices-level metrics, and database performance.
- Knowledgeable in Android native app profiling, including memory, CPU, battery or energy, and network profiling.
- Participated in various documentation tasks throughout the project, including creating test plans, workload models, test results, and completion reports.

POC and Automation

- Completed POC which covered Automation, Git Integration, Pipeline Creation, and Build Automation.
- Created 30+ selenium-based micro scripts and custom actions which were integrated in the company product.

Awards and Recognition:- Annual Super Squad award and Spot Appreciation Award:- Received quarterly award for handling multiple challenging projects effectively.

Finance & Investment Experience

Independent Private Equity & Options Trading — NSE, India

2019 – 2021

- Actively traded options and private equity as a personal investment venture, managed portfolio allocation, risk assessment, and trade execution on the NSE.

POSITION OF RESPONSIBILITIES

Cultural Head

MIT Cultural Art Portfolio | TEDx Light Art | Sand Art

July 2015 - Feb 2019

- As a Cultural Event Head, I participated and **won 15+ awards** in various competitions and explored diverse art forms like light art, sand art, wall painting, graffiti, ebru, speed painting, 3D paper cutting, charcoal
- Contributed to plays as a set designer, art director, actor and back-stage artist. Being a **part of the core team**, I have been a part of **recruitment, management decisions, finance and resource planning**.

Awards and Recognition:-

- **Performed light art at TEDx Pune** (Oct'16 and Apr'19).
- Won a state-level award for a mime play at "Maunantar".
- Invited as a **VIP guest artist** to perform murals at the prestigious IITB in the Mood Indigo festival, known as **Asia's biggest cultural fest**. December 2018.

INTERNSHIP

Mobile Sutra (INTERN)

CHAT BOT Team

June – July 2018

- The Business case included developing a simple AI chatbot based upon Google API.ai services which would respond to questions and queries asked.

ACADEMIC PROJECT

Financial Market Analytics:

Mar 2025

- 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:

Dec 2024

- 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:

Nov 2024

- Developed a database system with normalization, indexing, and clustering, integrating a K-Means model for real-time user segmentation and dynamic discount application. (Tech: Python, MySQL, K-Means)

Smart Irrigation System (IEEE Sponsored)

Jan - August 2018

- Led a team of 4 to build a smart irrigation and crop prediction system integrating three modules, viz. hardware back-end (IoT-based back-end), middle-ware (Firebase cloud services), and front-end (An Android app)
- Designed the system to quantify water available to the farmer using the IoT sensors through various sources and provide crop recommendations and a water scheduling system on an Android Social
- I am currently implementing a research-based solar project of 15Kw on the family farm as part of B.E studies.

Restaurant Management System

Jan - April 2018

- Developed a three-tier application, where the employees can perform CRUD operations on their profile. The system can help maintain inventory and has a simple billing system to calculate the remaining items.

Group wallet

Jan - April 2018

- Designed an app to track payments and later split the total amount among a group of participants.

SOCIAL INITIATIVES

- Helpage India. Actively supported elderly individuals through various initiatives and programs
- Adopted a Family in my native village. Provided financial support, job opportunities, connected to government schemes, and enabled interest-free loans.
- Have been a regular blood donor for a thalassemia patient for the past 4 years.
- Helped farmers connect with government schemes.

CO-CURRICULAR ACTIVITIES & LEADERSHIP

- * Committee member, MCUG: Contributed to promoting entrepreneurship and innovation.
- * Orchestrated Texephyr as a core committee member, overseeing hackathons and coding competitions at a national-level event, showcasing leadership and organizational abilities.
- * Facilitated collaboration: Worked closely with team members and stakeholders.
- * Enhanced event content: Developed engaging formats to attract diverse participants.
- * Demonstrated superior written and oral communication skills through active engagement within MCUG and Texephyr committees, facilitating effective coordination and collaboration among members.
- * Leveraged social media platforms, particularly Instagram, to enhance event promotion and outreach efforts, highlighting adaptability and proficiency with modern communication tools.
- * Exhibited problem-solving skills and effective time management throughout event planning and execution, ensuring seamless coordination and timely resolution of challenges.