Pradnya Sonawane

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MyPortfolioWebsite

PROFILE SUMMARY:

Performance Test Engineer with **3 years of experience** in system reliability and scalability, currently pursuing a **Master's in Computer Science at UIC** to apply my expertise in automation, performance optimization, and cloud infrastructure to build resilient, high-performing systems. I also have a special interest in data analysis.

EDUCATION

University of Illinois at Chicago, USA   August 2024 - May 2026 (expected graduation date)
Masters in Computer Science (GPA: 3.33/4.0)
Dr. D. Y. Patil Institute of Technology, Savitribai Phule Pune University, India   May 2021
Bachelor in Computer Engineering, CGPA: 8.48/10

SKILLS & TOOLS

1. **Programming Languages:** C++, Python
2. **Data Analysis:** MySQL, Microsoft Excel, Power BI, Python, NumPy, Pandas, Matplotlib Seaborn
3. **Web Technologies and Frameworks:** Django REST Framework
4. **CICD, Version Control and Automation:** Jenkins, GitHub Actions, GitHub, Terraform
5. **Performance Engineering** (Testing and Analysis):
   a. **Performance Testing:** JMeter, Gatling, Postman (for API testing)
   b. **Analysis and Monitoring:** Java Tuning, Datadog, Amazon CloudWatch (AWS), Grafana, Google Cloud Platform
   c. **Knowledge:** Containerization and orchestration tools like Docker or Kubernetes, IT Operations, DevOps, EC2, S3
6. **Others:** Microsoft Office Suite, Jira, Confluence, Effective Communication, Presentation, Adaptability, Teamwork, Cross-cultural collaboration

WORK EXPERIENCE - 3 years

NTT Data Services, India   July 2021–July 2024
Performance Engineering:

- Served as a performance tester and analyst in agile methodology for projects on prominent commercial websites, one of which catered to more than 1 million concurrent requests during events.
- Created scripts, conducted event-specific load modeling, and executed a range of testing methods, including Smoke Testing, Regression Testing, Stress Testing, Endurance Testing, Spike Testing, etc., to gauge the website's performance.
- Conducted comprehensive performance analysis and improved latency of multiple endpoints by 50%.
- Mitigated CPU utilization by ensuring the optimal allocation and utilization of container resources in the AWS Elastic Container Service architecture.
- Successfully implemented strategies to improve the website's performance, robustness, and reliability by over 40%.

Backend Development:

- Developed backend for a User Story Estimation website, streamlining the human effort budgeting in performance engineering projects using the Django REST Framework that covered all tasks from the requirement gathering phase to delivering performance enhancement solutions and reduced the time for project cost estimation from several days to a few seconds.

PROJECTS

- **Data Science Project: Reddit Data Analysis to understand and predict engagement** which included data collection by Scraping, Data cleaning, engagement analysis, and engagement prediction on posts Github
- **Database Project: Course Registration website** where admins can add and delete courses and students will be able to register and drop out from courses and build a schedule for themselves Github

AWARDS, CERTIFICATIONS AND OTHERS

- STAR Performance Award in the Category of Teamwork, NTT Data Services, India
- Certification in Japanese Language Proficiency Test (N4 Level), NTT Data Services, Pune, India
- Event Head and Organizer in ACUNETIX College Fest which had 100+ participants, Dr. D. Y. Patil Institute of Technology