

Ramnath Krishnamurthy

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EDUCATION

MS in Computer Science and Engineering
B. Tech in Information Technology from Anna University

Jun-18
Chennai, India 2009-2013

TECHNICAL SKILLS

| | |
|---------------------------|--|
| Language | Java/J2EE, C, C++, Python, SQL, Bash |
| Platforms | Windows, Linux, Mac |
| Performance Tools | IBM Pattern Modelling Tool, Thread Dump Analyzer, GC Analysis, Access log analysis |
| Application Server | Websphere, Tomcat, Weblogic server. |
| Monitoring | Willy Introscope, IBM Tivoli, Multiple performance monitoring/tracing commands. |
| Database & Tools | Docker, AWR health analysis and tuning , SQL Developer, Loadrunner, JMeter. |
| Profiling Tools | JProfiler, Dynatrace, YSlow, Wireshark, Chrome Dev Tools |
| Virtualization Techniques | Elasticsearch, Kibana, Grafana, Oracle Enterprise Manager, CloudWatchdog. |

WORK EXPERIENCE

Oracle India Pvt. Ltd

Apr 2016 to Dec 2016

Role: Production Engineer

Team: Performance Scalability Reliability

- Analyzed performance in about **2,500 production pods for Latency, Traffic, Error and Saturation.**
- Increased the **application performance by 20%** by using composite index, tuning GC.
- Worked on Incident, health and outages in the Oracle Cloud products with thousands of customers.
- Investigate and triage various outages and fix with highest priority using **ELK, Grafana and CloudWatchDog.**
- Benchmark code changes from dev to production and fix unexpected operational outages.
- Tracking and understanding outages and identifying more **test cases for performance engineering, scalability and endurance.** Mapping the symptoms to cause to understand what is broken and why it is broken.
- Analyze trend, conduct **ad hoc debugging, alerting and comparing metrics** over different experiment groups such as versions.

Cognizant Technology Solutions

Aug 2013 to Mar 2016

Role: Performance and Scalability Engineer

Team: Performance Architecture Consulting and Engineering

Target

- Examined and improved the performance of many applications to meet the SLA communicated as a part of Quality Assurance Engagement using **Jprofiler and DynaTrace.**
- Monitor infrastructure components using JVM monitoring and profiling tools, Client side analysis tool and DB tuning.
- Involved in identifying the root cause for the throughput issue in the java web services based application by analyzing the **Heap dumps, Thread dumps and GC Pattern.**
- Performed traffic evaluation by understanding the access logs and estimating the workload for load test.

Walgreens

- Benchmarked the current performance of various applications. Evaluated and investigated the **business-critical batch jobs** for Walgreens.
- Use tools like LoadRunner, Memory Analyzer, GC logs and Access logs to find the trend analysis for the usage to build a workload and engineer the application for response time.
- Analyze **DB performance** by understanding **top wait events, buffer usage and optimizing SQL queries.**
- Used JProfiler tool to capture the **response time taken in the application layer and the DB layer.** The application layer issues were analysed at method level and provided solutions to fix the code issues.

ACADEMIC PROJECTS

- UNIX System Internals** Understand all the system calls and how they are executed.
- Core Network Infrastructure** Trace end to end packets for all protocols using Wireshark and Linux commands.
- Linux Performance Evaluation** Create a checklist to understand issues with CPU, Memory, Files, NW, Disk etc. Simulate workload and execute commands to pinpoint all issues in physical components and software stack.
- Peer to Peer Image Sharing using Chord Protocol**
- Site Reliability Engineering** Monitoring at Scale using Elasticsearch, Logstash and Kibana. Build enterprise application in cloud in multiple VMs and find and fix anomalies using the monitoring infrastructure.

EXTRA CURRICULAR

- Certified *Performance Engineer and Tester* by Cognizant Technology Solutions.
- Published a journal on [A New Methodology for Search Engine Optimization without getting Sandboxed](#) in IJARCCCE.
- Certified *Google Analytics Individual Qualification* and *Hubspot Inbound marketing certification* for Digital Businesses.
- Handled about **25 projects on content and web design and development** by ranking and boosting ROI.
- Won Most Valuable Player award for efforts on automation of analysis and data setup.