

# Ajith Kumar Gani

Performance Engineer

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## Summary

Performance Engineer with 7+ years of experience in optimizing scalable, mission-critical systems across cloud-native, web, and mobile platforms. Specializes in observability, continuous performance testing, and DevSecOps integration using modern tools like Grafana, Prometheus, Aquasec, Twistlock, Jenkins, and Ansible to enhance system performance, reliability, and customer experience.

**Core Competencies:** Performance Testing & Tuning (Load, Stress, Scalability, JVM, DB), Automation & DevSecOps (Python, Jenkins, Ansible), Monitoring & Observability (Grafana, Prometheus), Security Scanning (AquaSec, Twistlock), Cloud & Containers (Kubernetes, OpenShift, AWS).

## Experience

### IBM Software Labs

Performance Engineer

May 2023 – Present

Kochi, India

- Optimized IBM WebSphere Liberty performance, **increasing payment service throughput by 40%** through tuning and runtime configuration enhancements.
- Executed load, stress, and scalability testing using JMeter, performing **workload modelling** to improve reliability and support proactive **capacity planning**.
- Automated collection and analysis of key performance metrics using Shell scripting, **reducing manual workload by 90%** and **improving reporting efficiency**.
- Built Jenkins pipelines for OpenShift-based monitoring stack deployments integrated with GitHub, supporting continuous performance validation.
- Performed **bottleneck analysis using IBM MQ, IIB Trace, and DB2 Snapshots** to resolve queue backlogs and payment timeout issues in critical applications.
- Deployed Grafana and Prometheus for observability, while integrating AquaSec, Twistlock, and Mend scans in CI/CD pipelines via **Python and Ansible** to enhance **DevSecOps security compliance**.

### Vodafone Qatar (Contract via Maveric Systems)

Jan 2021 – May 2023

Senior Performance Test Engineer

Doha, Qatar

- Analyzed HLD documents and gathered non-functional requirements to prepare test strategies and effort estimates, increasing project efficiency by 25% through proactive planning and reduced rework.
- Developed 20+ reusable scripts for HTTP/HTTPS, MQ, TCP, and SMPP** using industry-standard tools, expanding test coverage by 50%, reducing test time by 25%, and improving cross-project automation.
- Defined SLAs and SLOs in collaboration with stakeholders, directly increasing **service reliability by 50%**.
- Handled client-side encryption via JWT in test scripts and built a Java-based simulator, achieving thorough test coverage and production-quality validation.
- Monitored JVM heap memory and garbage collection on WebLogic with VisualVM and other enterprise APM tools, fine-tuning performance and minimizing latency.
- Deployed and maintained monitoring stack (Telegraf, InfluxDB, Grafana), **boosting issue detection by 50% and cutting resolution time** from days to hours.

### Gulf Payments Company (Contract via Maveric Systems)

Jan 2020 – Jan 2021

Senior Test Engineer

Riyadh, SA

- Led performance test practice for Central and Commercial banks across the GCC region, including environment setup, test data configuration, execution, and analysis.
- Gathered non-functional requirements** through stakeholder questionnaires and prepared customized performance test strategies for Central banks, executing functional, integration, and performance testing..
- Managed defect lifecycles, participating in CR, defect triage, and release review meetings.
- Developed JMeter scripts for load testing, **created stubs for external modules**, and **implemented client-side encryption for PKI environment**.

- Resolved a software configuration bottleneck, **reducing payment completion time from 30 minutes to 10 seconds (99% improvement).**

### ANB Invest / Maveric Systems

Performance Test Engineer / Intern & Academia Trainee

Sep 2018 – Dec 2019  
Riyadh, SA / Chennai, India

- Analysed non-functional requirements and developed IBM RPT scripts for testing the trade portal website.
- **Developed comprehensive workload models** and reusable assets for middleware log analysis, significantly improving reporting granularity.
- Completed an **Executive Postgraduate Programme** at Maveric Systems, integrating Software Testing, Performance Engineering, Automation, and Agile with business acumen in Financial Markets, Business Research, and Digital Banking.
- Led group projects as **Class Representative**, developing leadership and collaboration expertise.
- Merged academic training with practical testing, excelling in complex performance initiatives.

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### Skills

- **Test Management:** NFR Gathering , Test Planning, Test Design, Defect Management
- **Non-Function Testing:** Load, Stress, Scalability, Endurance, High Availability (HA) and Disaster Recovery (DR) Testing
- **Testing Tools:** JMeter, IBM RPT, LoadRunner
- **Automation:** Selenium, Playwright, SoapUI, Postman
- **CI/CD & DevOps:** Jenkins, Git, Docker, Jython, Bash Scripting
- **Functional testing:** API, Manual, Regression Testing, Market Rehearsal
- **Monitoring Tools:** Grafana, Prometheus, AppDynamics, SolarWinds, Kibana
- **Cloud:** AWS, GCP, OpenShift
- **Languages:** C++, Java, JavaScript, Python
- **Databases:** PostgreSQL, Oracle Database 11g, IBM DB2

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### Education

#### Advanced Certification Programme, AI and Machine Learning

Dual Specialization: Cloud Computing and Cybersecurity  
E&ICT Academy, IIT Guwahati

03/2025 – 02/2026 (Expected)  
Guwahati, India

#### Executive Post Graduate Programme, Financial Services and IT Assurance

Loyola Institute of Business Administration  
CGPA: 7.62/9

09/2018 – 09/2020  
Chennai, India

#### Bachelor of Engineering, Electronics and Communication Engineering

Anna University  
CGPA: 8.24/10

08/2014 – 05/2018  
Chennai, India

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### Awards & Certifications

- Certificate of Competency: Building LLM Applications with Prompt Engineering
- 'Spectrum Hall of Fame': For techno-functional excellence
- 'STAR' Awards: For Communication, Responsiveness, and Technical expertise
- IBM Certified Agile Explorer
- IBM Certified Enterprise Design Thinking Practitioner
- Coursera: Migrating to Google Cloud

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### Leadership Experience

- Mentored a team of 4 engineers, enhancing their technical and domain skills.
- Scrum Master for IBM Developer Jumpstart Program, leading a 10-member team.