

Navneet Krishna

Bangalore, India — +91-8939268857 — navneetkrishnam@gmail.com
navneetkrishnam.dev — linkedin.com/in/navneetkrishnam — github.com/navneetkrishnam

PROFILE SNAPSHOT

Proactive Performance Engineer with 11+ years of experience in performance engineering, monitoring and testing various apps - Web, Mobile and IoT. Specialized in building custom tools and automation frameworks for continuous performance testing, regression detection, and analysis. Equipped with expertise in analysis, bottleneck identification, fine-tuning and profiling. Experienced with testing on real & virtual devices (phones, tablets) using Perfecto and Sauce Labs.

CORE COMPETENCIES

- Building Custom Tools & Frameworks for Continuous Performance Testing and Regression Detection
 - Conducting Root Cause Analysis, Performance Profiling and Bottleneck Identification
 - Performance Engineering and Application Tuning across Web & Mobile Tech Stacks
 - End-to-End Automation of Performance Lifecycle – Testing, Monitoring, Analysis and Reporting
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TECHNICAL SKILLS

- **Tool Development:** Custom Automation Frameworks, Regression Detection Tools, RCA Automation
 - **AI Tech:** RAG, MCP and Agent Development, LLM Integration, AI Observability, Prompt & Context Engineering, Vibe Coding
 - **AI Tools:** Cursor, Windsurf, Claude Code, Codex, Copilot, Gemini (and CLI), LangChain, LangFuse, CrewAI
 - **Cloud & Container Tech:** AWS (EKS, ECR), Kubernetes, Docker, Argo CD, Custom Container Images
 - **Remote Device Platforms:** Perfecto, Sauce Labs and Real Device Cloud Infrastructure
 - **Automation & CI/CD:** Appium, UIAutomator2, Playwright, Jenkins, Selenium
 - **Profiling & Monitoring:** Splunk, Grafana, JProfiler, JMC, Oracle AWR
 - **Client-side Analysis:** Android Studio, Perfetto, Chrome DevTools
 - **Languages & Scripting:** JavaScript, NodeJS, Shell Script, Python, Java
 - **Performance Testing:** Apache JMeter, K6
 - **Network & Debugging:** Fiddler, Wireshark, Proxyman
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WORK EXPERIENCE

Lead Performance Engineer

Aug 2021 – Present

Salesforce, Bengaluru — Service Cloud - Field Service Mobile

- **Mobile Performance Optimization:** Lead performance engineering for Field Service Mobile application within Service Cloud, optimizing performance across diverse Android devices including phones, tablets, embedded devices, and custom hardware platforms
- **Custom Tool Development:** Built proprietary performance testing tools and automation frameworks from scratch to enable continuous performance testing, automated regression detection, and intelligent root cause identification, reducing analysis effort from 3 weeks to 3 days and script generation time from 2 weeks to 1 day; enabled 3500 tests per week (500 daily) vs 50 manual tests per week, achieving 70x productivity improvement
- **Device Testing:** Architected comprehensive testing strategy for Field Service application running on custom Android-powered devices (beyond traditional OEMs like Samsung/Motorola etc.), ensuring performance stability across specialized hardware configurations
- **Cloud-Native Infrastructure:** Designed and deployed scalable performance automation platform using Argo CD with custom container images deployed to AWS ECR, orchestrated via EKS for scheduled nightly execution and on-demand testing; framework adopted by 20+ scrum teams (200+ engineers) for execution, trending, and data analysis

- **Multi-Platform Device Infrastructure:** Architected dual-cloud device testing infrastructure leveraging both Perfecto and Sauce Labs for comprehensive coverage of real devices, embedded platforms, and custom hardware with parallel test execution capabilities; developed intelligent device utilization systems optimizing resource allocation, resulting in \$250K annual cost savings
- **Automated Analysis & Intelligence:** Developed intelligent algorithms for automated performance data analysis, anomaly detection, regression identification, and root cause analysis with dashboards for trending and debugging; built custom visualization dashboard tool storing test artifacts, errors, and failures to improve signal quality, reduce noise, and identify root causes of test flakiness
- **Device Vitals Monitoring:** Developed comprehensive device vitals monitoring system for Android devices that tracks CPU and memory usage per screen along with device-level power and temperature metrics, generating HTML reports correlating these metrics with latency to provide actionable performance insights
- **Network Traffic Analysis:** Built network capturing tool that intercepts and analyzes network traffic from application perspective, generating HTML reports with performance insights and optimization recommendations based on parsed traffic patterns
- **Continuous Testing Integration:** Integrated performance tests into CI/CD pipelines enabling continuous performance monitoring, expedited regression detection and early identification of application stability issues

Performance Engineer

Mar 2019 – Aug 2021

Oracle, Bangalore — Oracle Analytics Cloud - PaaS Service

- **Performance Engineering:** Identified and resolved performance bugs in Oracle Data Gateway, BI Publisher, and Data Visualizer; prototyped tuning solutions for memory optimization and response time improvements
- **Client-side Optimization:** Conducted comprehensive client-side performance testing and optimized UI rendering for Analytics applications, improving user experience
- **Tool Development:** Created Container based integrated framework for Automated script enhancements improving team efficiency and productivity
- **CI/CD Automation:** Automated Performance Testing, Monitoring, and Profiling in CI/CD pipeline using Jenkins, Grafana, Shell Scripts, Java & Python

Performance Test Engineer / Automation Specialist

Dec 2013 – Feb 2019

Tata Consultancy Services, Chennai

- **Framework Development:** Developed Automated Mobile End User Experience Framework, Performance Benchmarking Framework across Industries, and Automated Performance Test Result Analysis Framework
- **Performance Engineering:** Identified and resolved performance bottlenecks for Vodafone's mobile application using Android Studio profiling; optimized page-level performance for Woolworths retail platform using Chrome DevTools and WebPageTest
- **Large-scale Testing:** Executed performance tests for multiple enterprise clients: Telia (7500 users), Tata Cliq (5000 users), Colruyt IoT platform (2000 users), LinkedIn mobile app (250 users), and The Weather Channel video streaming (75 users)

PERSONAL PROJECTS & AI PORTFOLIO

- **AI Observability Platform** – Next-generation observability platform featuring system health monitoring, LLM tracing, and cost-to-serve analysis for comprehensive AI application performance tracking
- **Vibe Testing** – AI-augmented testing platform that conducts comprehensive automated tests for any given URL with intelligent analysis and reporting capabilities
- **Promptify** – Interactive learning platform for Prompt Engineering education, making AI prompt optimization accessible and engaging through gamified learning experiences
- **Hearthly** – AI-powered sustainable living platform providing personalized insights and information across all aspects of life to promote eco-friendly practices and sustainable lifestyle choices
- **Appointment Manager** – Smart scheduling application with AI-driven appointment management, conflict resolution, and automated calendar optimization

EDUCATION

Bachelor of Engineering in Electronics and Communication

Sri Sairam Engineering College, Anna University, Chennai