Nilesh Virkar

Team Lead & Software Architect | AI-Driven Backend Systems

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PROFESSIONAL SUMMARY

Senior Software Engineer & Technical Architect with 13+ years of experience building scalable backend platforms, static code analysis systems, and AI-driven developer tools. Currently leading engineering initiatives at BrowserStack, driving system architecture, AI adoption, and enterprise-scale platform growth.

- Led development of high-performance static analysis engines (anti-pattern & duplication detection)
- Built multi-language developer tooling ecosystem — IDE plugins + backend services
- Driving LLM integration into developer workflows
- Deep experience with enterprise clients, including German banking systems

CORE SKILLS

Languages: Java, Python, C, C++	**Backend & Cloud:** Spring Boot, Tomcat, AWS, Hadoop, Kafka
DevOps & Infra: Docker, Kubernetes (K8s), Helm, CI/CD, Jenkins, GitHub Actions	**Frontend:** JavaScript, JSF
Architecture: System Design, Scalable Backend, Distributed Systems	**Specialization:** Static Code Analysis, Anti-pattern Detection, Code Duplication
AI / ML: LLM Integration, AI-assisted Developer Workflows, Local LLMs (Ollama)	**AI Dev Tools:** VS Code Copilot, Claude Code, MCP Servers, Cursor, Prompt Engineering
Tools: Eclipse, VS Code, Visual Studio Plugin Development	**Leadership:** Team Management, Stakeholder Communication, POC Delivery

PROFESSIONAL EXPERIENCE

BrowserStack

May 2025 – Present

Team Lead | Forward Deployment & Solutions Engineering

- Leading end-to-end deployment of Code Quality platform into enterprise customer environments (on-prem & cloud)
- Owning customer-facing technical architecture decisions, AWS infrastructure, and Kubernetes-based deployments
- Driving AI adoption by integrating LLM-based developer tools directly into customer CI/CD workflows
- Acting as primary technical liaison — translating customer requirements into scoped, deployable solutions
- Managing team delivery, sprint planning, and cross-functional technical direction

Key Impact

- Successfully onboarded enterprise customers with complex on-prem and air-gapped infrastructure requirements
- Reduced deployment turnaround time through Kubernetes automation and reusable deployment templates
- Improved developer productivity at customer sites via AI-assisted workflow integrations

BrowserStack
May 2023 – May 2025

Senior Software Engineer | Solutions & Deployment Engineering

- Deployed and integrated enterprise static analysis platform into customer CI/CD and on-prem environments
- Led customer-facing technical implementations, onboarding, and troubleshooting sessions
- Optimized Kubernetes-based deployments and scaling strategies for large-scale scanning workloads
- Debugged production issues across distributed services, databases, and Kafka messaging pipelines
- Collaborated with customers to gather requirements and implement infrastructure automation improvements

Key Impact

- Enabled early-stage AI feature adoption at customer sites with measurable productivity gains
- Reduced customer escalation resolution time through systematic distributed-system debugging practices

Embold Technologies GmbH
Aug 2021 – May 2023

Engineering Lead | Forward Deployment Engineer

- Led deployment and integration of flagship static code analysis product across enterprise client environments
- Served as primary solutions engineer — owning end-to-end customer technical onboarding and POC delivery
- Worked on-site and remotely with enterprise clients to implement, configure, and validate platform deployments
- Designed core analysis algorithms and backend architecture to meet diverse customer scalability requirements
- Collaborated directly with stakeholders to translate business requirements into implemented platform features

Key Impact

- Delivered production-grade deployments to multiple enterprise clients, accelerating time-to-value
- Drove POC-to-production conversion through hands-on customer engagement and technical credibility

Embold Technologies GmbH
2017 – 2021

Team Lead / Senior Software Engineer

- Designed and optimized anti-pattern detection and code duplication algorithms at the core of the platform
- Architected scalable backend services and supported customer-facing deployment configurations
- Built IDE plugins for Eclipse, VS Code, and Visual Studio to extend platform reach into developer workflows
- Contributed to customer environment integrations and CI/CD pipeline setups during early product growth

Key Impact

- Established the algorithmic foundation powering enterprise-scale code analysis
- Expanded product ecosystem with multi-IDE integrations adopted across customer developer teams

Mobilators
Dec 2012 – Sep 2015

Trainee Software Engineer → Software Engineer

Worked on iOS game development, a calendar app, and a health tracking platform built on Java, Spring Boot, and Hadoop.

KEY PROJECTS

Static Code Analysis Platform — Embold / BrowserStack

- Designed end-to-end backend architecture for the analysis platform
- Built high-performance engines for anti-pattern and code duplication detection
- Developed IDE plugins across Eclipse, VS Code, and Visual Studio
- Integrated local LLMs to provide enhanced developer code insights

Impact

- Delivered a scalable developer productivity platform adopted at enterprise scale
- Enabled AI-powered code insights and workflow automation

MIPP Banking Portal — German Banking Client

- Developed a secure, enterprise-grade banking portal for a German financial institution
- Worked on-site with client teams for delivery, integration, and acceptance
- Built scalable backend features using Java and JSF

Impact

- Delivered a highly reliable and secure financial system on time
- Strengthened long-term client trust and engagement

EDUCATION

Master of Computer Science
Savitribai Phule Pune University