

SHAM SATISH THAKARE

SOFTWARE DEVELOPMENT ENGINEER • FULL-STACK, CLOUD & DISTRIBUTED SYSTEMS
REACT & TYPESCRIPT • NODE.JS & KAFKA • AWS SERVERLESS & DYNAMODB • TERRAFORM (IaC) • GenAI & AGENTS

Noida, UP Ready | 0-Day Notice / Immediate Joiner | +91 7776807761
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Target Requisition
Software Development Engineer
Job ID: R170776 • Noida, UP
Student Product Group Team

5-SECOND ADOBE SOFTWARE DEVELOPMENT ENGINEER (STUDENT PRODUCT GROUP) QUALIFICATION SNAPSHOT

Full-Stack Web, Modern UI & GenAI: • 5+ Years Full-Stack Software Engineering Experience: 5+ years architecting production web applications and portals using React 18, TypeScript, Web Components, Redux, Node.js, and HTML5/CSS3; fully meets the 4+ years requirement. • Distributed Services, Caching & Queuing: Deep expertise building resilient microservices using Node.js, Apache Kafka, Redis, Memcached, Docker, and MySQL; engineered pipelines handling 80M+ daily events with sub-18ms p99 latency. • GenAI & Agentic Application Development: Built agentic development tools and LLM integrations for intelligent journey personalization, automated feature selection, and developer workflow acceleration (+45% velocity).	AWS Cloud, Scale & Research Rigor: • AWS Serverless & Cloud Operations (Terraform): Production-hardened with AWS Lambda, API Gateway, DynamoDB, SQS/SNS, S3, RDS, ElastiCache, Autoscaling; HashiCorp Certified Terraform Associate (003). • Commercial Production Scale (Capital One, 5 Years): Scaled enterprise platforms powering \$5.4B+ volume under mentorship of Yuri Shelke (Distinguished Systems Architect, ex-Amazon); Spot Award Winner (Top 1%). • Premier Academics & 4 First-Author Papers: Active PhD Scholar at SPPU; B.E. in AI & Data Science (8.70 CGPA Distinction); IEEE BigData '26, USENIX NSDI '27 candidate, Elsevier AIIM; Immediate Joiner.
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PROFESSIONAL SOFTWARE DEVELOPMENT & DISTRIBUTED SYSTEMS EXPERIENCE (5+ YEARS)

INDEPENDENT SYSTEMS & GENAI INFRASTRUCTURE RESEARCHER <i>Doctoral Focus: AI Agent Tool Execution • Deterministic Runtime Guardrails • Serverless Stream Resilience • Byzantine Consensus</i> • Deterministic AI Agent & Tool Execution Guardrails (MediRush-SafeAgent — Elsevier AIIM Candidate): Designed memory-isolated execution verification engines enforcing deterministic compute bounding and API tool call invariant checks; eliminated cascading failure loops and guaranteed zero memory leaks across concurrent autonomous agent workflows. • Fault-Tolerant Distributed Stream Resilience (recovery_eval — IEEE BigData '26, ID: BigD497): Formulated and benchmarked automated state recovery models for high-throughput distributed stream pipelines under simulated cloud network partitions and node crashes; proved bounded recovery time objectives across multi-tenant topologies. • Cryptographic High-Throughput Attestation (TrustQuorum — USENIX NSDI '27 Candidate): Engineered an ultra-low-latency consensus engine capturing 1.8M sync events/sec at <1.2ms p99 latency, utilizing immutable Merkle structures to guarantee tamper-proof audit trails for distributed systems operations. • Predictive Cluster Workload Balancing (IJNRD 2024 — 91.4% AUC-ROC): Authored published research analyzing predictive compute telemetry; engineered statistical classification pipelines achieving 91.4% AUC-ROC to dynamically rebalance heterogeneous cluster nodes and prevent resource starvation.	Jul 2026 – Present Noida Ready / Pune
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CAPITAL ONE Software Development Engineer / Distributed Systems Lead <i>Systems Architecture Mentorship under Yuri Shelke (Distinguished Systems Architect, ex-Amazon) • Capital One Spot Award Winner (Top 1% of 150+ Engineers across 19+ Years)</i> • Enterprise Web Architecture & User Provisioning: Architected and deployed dynamic, responsive web portals using React 18, TypeScript, Web Components, and Redux Toolkit; decoupled monolithic onboarding flows into reusable, modular component libraries, reducing frontend bundle size by 44% and accelerating initial render time by 58%. • Detailed Design Documents (DDDs) & Spot Award: Authored foundational architecture specifications and DDDs resolving deep multi-threading race conditions and connection pool exhaustion across asynchronous event workers, PostgreSQL, and Kafka; eliminated 78% of concurrency deadlocks, earning the prestigious Capital One Spot Award (ranked top 1% of 150+ engineers). • High-Throughput Microservices & Event Streaming: Built scalable backend microservices in Node.js integrated with Apache Kafka event buses; processed 80M+ daily events and \$5.4B+ in daily volume under strict sub-18ms p99 latency with 99.999% SLA availability. • Distributed Caching & Database Performance (Redis & Memcached): Implemented multi-tier caching architectures leveraging Redis and Memcached in front of MySQL and Amazon DynamoDB clusters; absorbed 72% of read query traffic, lowering database CPU utilization by 45% and eliminating query hotspots. • AWS Serverless & Cloud Infrastructure (Terraform): Engineered serverless microservices using AWS Lambda, API Gateway, SQS, SNS, and S3; codified cloud resources end-to-end via Terraform (IaC), implementing automated blue/green canary deployments that slashed release rollback times to zero. • On-Call Ownership & Pre-Deployment QA: Led tier-1 on-call incident triage rotations, authoring automated self-healing scripts that reduced Mean Time to Resolution (MTTR) by 62%; built comprehensive unit/integration test suites (Jest, TDD) enforcing 94%+ code coverage before production deployment.	Jun 2021 – Jun 2026 (5 Years) Bengaluru, India
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KEY FULL-STACK, DISTRIBUTED SYSTEMS & GenAI PROJECTS

Frictionless Institutional Provisioning & Onboarding Portal: React 18, TypeScript, Node.js, AWS Lambda, DynamoDB Engineered self-serve provisioning portal for institutional administrators and educators, enabling bulk student cohort provisioning into digital creative tools via SCIM and SAML SSO; onboarded 250,000+ users across 1,200 institutions while reducing onboarding time from 4 days to under 3 minutes. Real-Time Educational Telemetry & Personalization Stream: Apache Kafka, Redis, Node.js, MySQL, DynamoDB Built an event-driven telemetry stream tracking student feature interactions; ingested clickstream events via Kafka and hydrated real-time recommendation caches in Redis, powering personalized journey recommendations for 2M+ active learners and boosting first-day project completion by 38%. recovery_eval Stream Fault Resilience Harness: IEEE BigData '26 (Acceptance ID: BigD497) Designed automated C++20 and Python evaluation harness measuring state recovery bounds, throughput jitter, and hardware partition resilience across multi-node stream processing pipelines under simulated cloud network partitions. TrustQuorum Immutable Consensus & Telemetry Engine: USENIX NSDI '27 Candidate Engineered ultra-low-latency consensus engine capturing 1.8M events/sec at <1.2ms p99 latency, utilizing lock-free state queues and Merkle trees to guarantee non-repudiation for high-volume distributed transactions.	
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CORE TECHNICAL SKILLS & STUDENT PRODUCT GROUP COMPETENCIES

Frontend & Web Components:	React 18, TypeScript, Web Components, Redux Toolkit, Vue.js, Bootstrap, HTML5/DOM, CSS3, RESTful APIs, AJAX, Responsive Design, Test-Driven Development (TDD), Jest, Cypress.
Backend & Distributed Systems:	Node.js, Express, Apache Kafka, Redis, Memcached, Docker, MySQL, PostgreSQL, Amazon DynamoDB, Microservices Architecture, Event-Driven Design, WebSocket.
AWS Cloud & Serverless:	AWS Lambda, API Gateway, DynamoDB, SQS, SNS, RDS (MySQL), ElastiCache, S3, Autoscaling, ELB, CloudWatch, Serverless Architecture.
Operations & DevOps (IaC):	Terraform (003 Certified), Kubernetes (CKA & CKAD Certified), Docker, CI/CD (GitHub Actions, Jenkins), Git Flow, Linux System Administration (LFCS Certified), Blue/Green Rollouts.
AI/ML & CS Fundamentals:	LLMs & Agentic Frameworks, RAG Pipelines, Vector DBs, Prompt Engineering, Data Structures & Algorithms, High Availability (99.999% SLA), Security Hardening, Modern C++ (CLP Certified).

PREMIER EDUCATION & INDUSTRY-RECOGNIZED SYSTEMS / CLOUD CERTIFICATIONS

Savitribai Phule Pune University (SPPU) Doctoral Scholar / PhD Candidate in Computer Science & Engineering <i>Research Focus:</i> High-Concurrency Consensus, Distributed Stream Recovery & Agentic Safety. Bachelor of Engineering (B.E.) in Artificial Intelligence & Data Science SPPU - APCOER Advanced Systems & AI <i>CGPA: 8.70 / 10.0 (Distinction)</i> <i>Core Coursework:</i> Web Technologies, Distributed Systems, Cloud Computing, Database Systems, Data Structures & Algorithms.	• Certified Kubernetes Application Developer (CKAD) — Linux Foundation / CNCF • Certified Kubernetes Administrator (CKA) — Linux Foundation / CNCF • HashiCorp Certified Terraform Associate (003) — HashiCorp • AWS Certified Solutions Architect – Associate (SAA-C03) — AWS • AWS Certified Data Analytics – Specialty (DAS-C01) — AWS • Linux Foundation Certified System Administrator (LFCS) — Linux Foundation • C++ Certified Professional Programmer (CLP) — C++ Institute
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