

PAVANKALYAN NAGELLI

Software Engineer

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SUMMARY

Software Engineer 3+ years of experience engineering scalable distributed systems using Java 17, Spring Boot, and React.js. Specialized in cloud-native AWS architecture, orchestrating Microservices to process 50,000+ daily events and manage 2.5TB+ of transaction data. reducing API latency by 40%, achieving 85% test coverage through TDD, and modernizing CI/CD pipelines in Agile environments.

EDUCATION

University of Central Missouri

Master of Science in Computer Science

MO, USA

January 2024-December 2025

Guru Nanak Institute of Technology

Bachelor of Technology in Electronics & Communication Engineering

HYD, India

July 2017-July 2021

SKILLS

Languages: Java (8+/11/17), Python, C/C++, JavaScript (ES6+), SQL, Bash/Shell Scripting.

Backend Frameworks: Spring Framework (Boot, MVC, Security, Data JPA), Hibernate/JPA, JDBC, J2EE/Java EE.

Frontend Technologies: React.js, HTML, CSS, Bootstrap, Responsive UI.

Architecture & APIs: Microservices, RESTful APIs, MVC Architecture, OOP, Design Patterns.

Databases & Messaging: PostgreSQL, MySQL, SQL Server, Apache Kafka, RabbitMQ.

Cloud & Infrastructure: AWS, GCP, Terraform, Docker, Kubernetes.

DevOps & Build Tools: Jenkins, GitHub Actions, Maven, CI/CD Pipelines.

Testing: JUnit, Mockito, Selenium, Cucumber, TDD, BDD.

Tools & Process: Git (GitHub/GitLab), Jira, Confluence, Splunk, ELK Stack, Grafana.

Security & Methodologies: OAuth2, JWT, OWASP, Agile, Scrum, SAFe.

PROFESSIONAL EXPERIENCE

HUBSPOT INC.

Software Engineer (Distributed Systems)

MA, USA

May 2025 – Present

- Engineered scalable RESTful microservices using Java 17 and Spring Boot, implementing Redis caching strategies that slashed average API latency by 40%, enhancing user experience for high-traffic endpoints.
- Architected a fault-tolerant data ingestion pipeline utilizing Apache Kafka to process over 50,000 daily customer events, ensuring real-time synchronization across 3 critical CRM dashboards.
- Overhauled the release lifecycle by migrating legacy pipelines from Jenkins to GitHub Actions, cutting build times from 45 to 15 minutes and enabling 3+ rapid intraday deployments.
- Transformed monolithic backend logic into serverless AWS Lambda functions via Terraform, eliminating idle server costs and ensuring auto-scaling during traffic spikes of 10,000+ concurrent requests.
- Delivered secure, responsive client modules using React.js and Bootstrap, enforcing OAuth2 and JWT standards to protect sensitive data for 2,000+ enterprise users.

TATA CONSULTANCY SERVICES

Software Engineer

INDIA

October 2021–January 2024

- Championed a Test-Driven Development (TDD) culture using JUnit and Mockito, achieving 85% code coverage and drastically reducing critical defects in production releases.
- Partnered with a cross-functional Agile team of 10 developers and QA engineers to modernize core banking systems, facilitating daily stand-ups and bi-weekly sprint planning to align deliverables.
- Standardized application deployment by containerizing 15+ internal services using Docker, ensuring environment consistency across dev, staging, and GCP production clusters.
- Optimized high-volume financial data processing by tuning PostgreSQL schemas and Hibernate queries, handling 2.5TB+ of historical transaction records.

- Established a robust automated testing framework using Selenium and Cucumber, executing 200+ nightly regression scripts to identify integration issues prior to client delivery.
- Modernized the legacy codebase by upgrading from Java 8 to Java 11 across 5 core microservices, replacing deprecated libraries with current Spring Boot dependencies to mitigate security vulnerabilities.

PROJECT

IoT Disaster Dam Management System (Arduino, Raspberry Pi, Python, GSM, Cloud Dashboard)

- Designed a smart dam-monitoring solution to send real-time flood alerts via sensors and GSM communication.

ADDITIONAL EXPERIENCE

Perplexity, Student Volunteer August 2025–December 2025

- Promoted Comet student tool via campus engagement and interactive events.

Muleskinner (UCM Student Newspaper), Student Volunteer August 2025–December 2025

- Created digital content, photography, and event coverage for campus media.

Social Media Manager, Self-Employed July 2020–Present

- Managed content creation, social media campaigns, and audience engagement strategies.

Adobe IoT Academy, Internship Trainee August 2018–January 2021

- Developed automated IoT solutions integrating Arduino and Raspberry Pi with Python and Embedded C to enable real-time sensor monitoring and cloud-based data logging.

CERTIFICATIONS & AWARDS

- **Certifications:** AWS Certified Solutions Architect - Associate, AWS Certified Cloud Practitioner, Google Cloud Certified Associate Cloud Engineer, Spring Framework (Udemy), Agile Methodologies, Linux Programming, Fundamentals of Machine Learning & Artificial Intelligence (Coursera).
- **Awards:** Finalist - Smart India Hackathon 2019.
- **Volunteering:** National Service Scheme (NSS) Volunteer (4 Years)