

SANDEEP NAMINI

Senior Software Engineer | Cloud, Data & DevOps

sandeepknamini@gmail.com | 1234567890 | github.com/sandeepknamini | nsandeep.dev

PROFESSIONAL SUMMARY

Software engineer and DevOps lead with 12+ years delivering enterprise applications, cloud infrastructure, data pipelines, and production support for telecommunications platforms. Hands-on scope spans Java/Spring and Python services, AWS event processing, Scala/Spark data engineering, Adobe marketing integrations, CI/CD, and operational troubleshooting. Experienced in requirements analysis, implementation, testing, release coordination, and knowledge transfer.

TECHNICAL CAPABILITIES

Application engineering: Java, Python, Scala, SQL, PL/SQL, Bash, JavaScript; Spring Boot, Spring Cloud, Spring MVC/Security/Batch, Hibernate, REST, SOAP, OAuth/OIDC, HTML/CSS, AngularJS.

AWS & infrastructure: Lambda, API Gateway, S3, SNS, SQS/FIFO, DynamoDB, SES, EventBridge, ECS Fargate, Batch, IAM, Secrets Manager, Route 53, ALB; Terraform/OpenTofu, CloudFormation, Docker, Ansible.

Data engineering: Spark, PySpark, Spark SQL, Databricks, Airflow/MWAA, Iceberg, Glue, Lake Formation, Parquet/ORC, CDC, data quality; PostgreSQL/Aurora, Oracle, Redshift, MySQL, SQL Server.

Marketing platforms: Adobe Campaign Classic/v8, Message Center, Journey Optimizer, AEP integrations, XTK/server-side JavaScript; email, SMS/RCS, direct mail, outbound telemarketing, push, vendor exchange, contact history.

Delivery & operations: GitHub Actions, Jenkins, Concourse CI, Maven/Gradle, Git, OIDC; pytest, unittest/mock, moto, Behave, JUnit; CloudWatch, Vector, Elasticsearch/Kibana, VictoriaMetrics, Grafana, Splunk, Snyk, SonarQube, Checkov.

PROFESSIONAL EXPERIENCE

COMCAST | Philadelphia, PA

Sr. Java Developer / DevOps Lead Engineer | January 2018 - Present

Marketing integrations & communication services | 2023 - Present

- Developed and maintained Python APIs, Lambda processors, and AWS integrations supporting transactional communication requests, event routing, channel dispatch, and communication history.
- Worked across Adobe Campaign Classic/v8, Message Center, Journey Optimizer, and AEP integrations for email, SMS/RCS, direct mail, outbound telemarketing, and push.
- Connected API requests and events with SNS/SQS boundaries, DynamoDB routing configuration, S3 request archives, and downstream channel adapters.
- Supported campaign workflow automation, file validation, vendor-file generation, encrypted handoff, passback processing, and contact-history integration for offline channels.

PROFESSIONAL EXPERIENCE, CONTINUED

COMCAST | Cloud, data & marketing platform engineering

Selected delivery scope | 2023 - Present

Data orchestration, lakehouse processing & quality

- Owned file-driven orchestration connecting S3 notifications, SQS FIFO, DynamoDB state tracking, MWAA/Airflow, and Databricks; implemented ordered dispatch and operational recovery states.
- Worked across Scala/Spark and PySpark batch pipelines for customer profile enrichment, CDC, communication-history normalization, and partitioned data storage.
- Contributed configurable data-quality validation, source/target reconciliation, and Iceberg table infrastructure; separated pipeline execution, data validation, and storage responsibilities.
- Built Python/SQL integrations for PostgreSQL contact records, scheduled retention processing, and S3 exports; supported OpenTofu-based Redshift infrastructure and monitoring.

Email evidence, identity & reliable event delivery

- Owned SES inbound-capture infrastructure with Route 53, SNS, encrypted S3 storage, and DynamoDB metadata indexing; worked across platform-specific email processors and content retrieval.
- Contributed to read-only HTML lookup through an internal ALB with Azure AD/Entra ID OIDC authentication, allowing support teams to inspect stored email content.
- Owned queue-to-API Timeline forwarders using cached OAuth credentials, token refresh, exponential-backoff retry, payload validation, and SQS partial-batch failure responses.
- Worked with GPG/PGP encryption and decryption services, existing-key retrieval, key-expiration monitoring, and encrypted vendor-file exchange.

Delivery engineering, observability & security automation

- Owned reusable Java/Scala deployment templates with Maven/Gradle builds, S3 JAR/configuration publication, Databricks job creation or updates, and manual production promotion.
- Used GitHub-to-AWS OIDC and environment-specific IAM roles; contributed reusable Python workflows for unit tests, packaging, OpenTofu deployment, and acceptance testing.
- Worked across structured logging, Vector/ECS log forwarding, CloudWatch monitoring, VictoriaMetrics metrics, Grafana alert routing, and EKS/Helm observability configuration.
- Contributed Python/Bash security automation, endpoint inventory reporting, service scaffolding, and AI-assisted testing/SRE prototypes; supported testing, documentation, and operational troubleshooting.

PROFESSIONAL EXPERIENCE, CONTINUED

COMCAST | Philadelphia, PA

Sr. Java Developer / DevOps Lead Engineer | January 2018 - Present

Know Every Business: application & data platform delivery | 2018 - 2022

- Led transition of 15 external data vendors to Comcast-managed SFTP/AWS/S3 exchange, working with security and operations teams to establish vendor data-transfer arrangements.
- Designed Java/Spring Boot REST services for analytics and sales/marketing data, consumed third-party ingestion APIs, and integrated Spring Cloud service discovery and API-gateway components.
- Developed Python/Pentaho ETL components for file staging and JSON generation; coordinated with ETL teams on source requests, job invocation, validation, and defect resolution.
- Created and tuned Oracle tables, indexes, views, materialized views, PL/SQL procedures, functions, and packages; investigated slow production queries using execution plans.
- Led DevOps delivery for API and ETL teams; automated AWS environments using Terraform/CloudFormation and configured IAM, VPC/subnets, API Gateway, Route 53, storage, and messaging services.
- Implemented Jenkins CI/CD and shell automation, integrated release promotion with deployment tooling, and managed Git branching, merging, tagging, and production release coordination.
- Supported application modernization, PCF deployments, CloudTrail/Splunk logging, telemetry, L3 incident resolution, and knowledge articles; participated in design reviews and sprint delivery.

Environment: Java 8, Spring Boot/Cloud, REST, Eureka, Zuul, PCF, Python, Bash, Pentaho, Oracle, AWS, Terraform, CloudFormation, Jenkins, Maven, Git, Docker, Splunk, Grafana, uDeploy.

AT&T | Dallas / Richardson, TX

Sr. Java Developer / Production Support | May 2014 - December 2017

Invenio enterprise metadata platform | September 2016 - December 2017

- Served as Data360 subject-matter expert for enterprise metadata discovery, data lineage, profiling, and feed-provisioning workflows.
- Developed Java/Spring Boot services and AngularJS/Bootstrap interfaces; contributed Hibernate persistence, application redesign, enhancements, testing, and deployment.
- Supported Jenkins delivery, regression estimation, environment setup, defect investigation, client requirements, and production troubleshooting across data-platform teams.

API Test Automation Cloud | Testing tools program, May 2014 - September 2016

- Developed concurrent test execution using Java multithreading, dynamic workspaces, selectable environments/versions, and consolidated execution-history reporting.
- Coordinated requirements and offshore delivery, reviewed code and unit tests, supported Parasoft integrations, and investigated execution failures with engineering and vendor teams.

PROFESSIONAL EXPERIENCE, CONTINUED

AT&T | Testing tools & application support

Selected project delivery | May 2014 - September 2016

API Testing as a Service & API360

- Built Spring services, Oracle data-access components, and AngularJS/HTML/CSS interfaces for API testing and API metadata dashboards; implemented Spring Security authentication and authorization.
- Supported test discovery, execution, API virtualization, WSDL/sample-payload tooling, and Parasoft test environments; developed Selenium automation for application UAT and defect investigation.
- Migrated Ext JS dashboards to AngularJS, created responsive reporting interfaces, and integrated API metadata with test and operational information.
- Created JUnit and SOAP service tests, tuned application/database behavior, and supported Maven/Jenkins builds, Tomcat deployments, code reviews, release coordination, and production fixes.

Triage as a Service & Test Data Self Service proof of concept

- Supported defect-management and triage workflows, release implementation, data-integrity analysis, application performance investigations, and post-launch production issues.
- Contributed Java/J2EE and AngularJS components to a self-service test-data prototype, including secure web-service integration, Maven packaging, Linux scripting, use cases, testing, and client demonstrations.

Environment: Java/J2EE, Spring, Hibernate, AngularJS, Bootstrap, HTML/CSS, JavaScript, Oracle, REST/SOAP, JUnit, Selenium, Parasoft SOAtest, Jenkins, Maven, Tomcat, Linux, Git/SVN, Splunk.

ITC LIMITED | Hyderabad, India

Software Engineer Intern | June 2010 - March 2011

- Supported SAP supply-chain workflows, business integration and acceptance testing, incident resolution, process documentation, and end-user support.

EDUCATION & SELECTED ACADEMIC WORK

Master of Software Systems | University of St. Thomas, Saint Paul, MN

Healthcare informatics project: Java web interfaces and ETL/reporting using UMLS and PubMed data for chronic kidney disease analysis (2013).

MS in Computer Networking | University of Bedfordshire, Luton, UK

Wireless sensor network research: simulation and hybrid AES/ECC encryption for node authentication and secure key exchange (2011 - 2012).

BTech in Computer Science Engineering | JNTU-affiliated institution, Hyderabad, India

CREDENTIALS & PUBLICATION

Credentials earned in 2012: Cisco CCNA; ITIL Foundation in IT Service Management; Microsoft Certified IT Professional (MCITP).

A Secure Communication for Wireless Sensor Networks: Through Hybrid (AES + ECC) Algorithm. LAP LAMBERT Academic Publishing, 2012. Author: Namini Sandeep Kumar.