**Kaushik Roy**

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**PROFESSIONAL HIGHLIGHTS**

* Application architect and platform lead - designed, built and operationalized mission critical platforms and applications.
* Experienced Kafka architect who have delivered large scale data pipeline ecosystem in a multi-tenant environment.
* Confluent certified developer for Kafka.
* Extensive experience in data pipeline and ingestion, application integration, messaging middleware, stream processing, API
* Bootstrapped and managed new project teams in an agile environment. Played the role of Product Owner.
* Hands on leader, tenacious and motivated problem solver, strong communicator and influencer.
* Expertise in evaluating products and solutions with a strong focus in accessing high availability, disaster recovery, error handling, fault tolerance, management and monitoring.
* Passionate about exploring new technologies and incorporating them into solutions.
* Collaborated extensively with geographically distributed teams, partners and vendors.
* 15+ years of Java software development background.

**KEY TECHNOLOGIES**

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| --- | --- |
| **Language** | Java, Node.js |
| **Data Ingestion & Integration**  | Apache Kafka (Confluent & Hortonworks),Kafka Streams, Apache NiFi, Kafka Connect, Service Bus |
| **Container**  | Docker |
| **Automation/CI CD** | Ansible, Jenkins, GitHub |
| **Database** | Oracle, MariaDB, MongoDB, SQL Server |
| **Big Data Tools/Framework** | Zookeeper, Apache Ambari, Apache Zeppelin, Apache Ranger, Apache Atlas |
| **B2B Technologies** | AS2, Rosettanet |
| **Project Tools** | Agile Manager, Jira |
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**PROFESSIONAL EXPERIENCES**

**Solution Architect,** [**DXC Technology**](https://www.dxc.technology/) **-------------------------------------------------------------------- April 2017 – Current**

**Master Data Mgmt, Account: Hewlett Packard**

Integration Architect Sep 2019 – Current

* Building real time subscription pipeline for master data consumption by downstream system.
* Analyzed business requirement for initialization and continuous integration of D&B(Duns & Bradstreet) data
* Designed ingestion, distribution and audit of D&B updates using [Monitoring APIs](https://directplus.documentation.dnb.com/html/pages/MonitoringAPIs.html) for 10 Mil. customer data

**Data Distribution Platform, Account: DXC OCIO**

Solution Architect Sep 2017 – Current

*A data ingestion, application integration and distribution platform built using Apache NiFi and augmented with self-subscription, management and tracking portal. This platform is the backbone of enterprise wide application integration and data lake ingestion integrating 40+ enterprise applications in multiple business units.*

Technology Stack: Apache NiFi, Java, Node.js, Angular, SQL Server

* Performed technical analysis of legacy middleware and defined future state capability requirements.
* Evaluated Apache NiFi, performed POC and mapped requirement to NiFi capabilities. Worked with Vendor (Hortonworks) product engineering team to evaluate gaps and best practices.
* Architected the solution using NiFi, services/APIs, portals and custom processors. Designed integration with enterprise tools like SailPoint, SSO etc.
* Designed physical landscape based on best practices, product high availability and throughput requirements. Worked on vendor support licensing and kept the licensing cost below 200K per year. Retired and merged components after the 1st year’s usage to keep support costs stable in spite of scaling nodes.
* Presented, reviewed and lead the approval of the technical and physical design at OCIO architectural review board.
* Planned high level deliverables, resource demand estimation and project milestones.
* On-boarded the offshore delivery team of 30+ engineers across multiple geographical region. Mentored the team on the architecture, best practices, technologies and implementation.
* Designed some of the individual components like custom tracking module and portal. Contributed to and reviewed other component design.
* Interfaced with 40+ tenants and stakeholders to provide technical leadership on overall migrations.
* Worked closely with the development team on issues and priorities. Worked with technical project manager on critical path activities, scrum scope, resource gaps.
* Lead technical planning of migration and cutover activities from legacy middleware to the new solution.
* Currently architecting phase 2 to extend functionality and business requirements.

**Messaging Platform Migration, Account: Hewlett Packard Enterprise**

Kafka Platform Consultant Jan 2019 – Current

*The project involved migrating Kafka Platform implementation on Hortonworks to Confluent*

Technology Stack: Confluent Kafka

* Consulted on the architecture, build, tenant on-boarding, monitoring and operationalization of the new platform.
* Analyzed the new architecture for operational gaps and drafted specification for go-forward monitoring solutions
* On-boarded and transitioned the new platform including new components like control center, replicator, multi data-center deployment to operation team
* Provide ad-hoc consulting on new features, on-boarding engagement and operational issues

**Application Architect and Platform Lead**,[**Hewlett-Packard Enterprise**](https://www.hpe.com/us/en/home.html) **-------------------------- Nov 2015 – March 2017**

**Messaging Platform as a Service**

Application Architect and Platform Lead Aug 2016 – Mar 2018

*Messaging platform and ecosystem built around Apache Kafka providing a centralized, multi-tenant, mission critical pan enterprise data consumption, and messaging and integration platform.*

Technology Stack: Hortonworks Kafka, Java, Node.js. Grommet, Docker, RESTful API, MongoDB, MariaDB

* Created and socialized product vision of Kafka based messaging ecosystem for future state enterprise landscape.
* Closely collaborated with enterprise architects to receive funding for the project.
* Owned the technical product roadmap.
* Architected the entire stack with multiple services for provisioning, rest interface to Kafka, and UI portal.
* Designed multi tenancy and Kafka security based on SSL Authentication and 2-Way SSL Authorization
* Architected the physical landscape based on funding, best practices and throughout requirements.
* On-boarded and mentored the development team of 15+ engineers.
* Lead the design of UI components by closely collaborating with a UX Designer
* Lead the team to design all the services using the REST methodology
* Developed automation installation framework using Ansible to reduce Hortonworks Kafka stack installation by 80%
* Lead the performance benchmarking of Kafka
* As product owner - managed, prioritized and refined the product backlog. Lead the sprint planning. Interfaced with stakeholders and business sponsors on sprint progress and demos.
* Provided technical leadership and consulting on reference architecture, training, working code, demos to tenants to enable their transition to Kafka ecosystem. Actively engaged with the tenants to identify roadblocks, issues and requirements and looped them into the product backlog.

**Integration NextGen Architecture Digital XForm**

Architect and Integration Lead Nov 2015 – Sep 2016

* Core team member of enterprise technology transformation program office for the newly separated company - focusing on integration domain
* Analyzed current state integration stack in the enterprise and evaluated multiple solution’ capability, integration patterns and resource landscape (cost, support, hardware)
* Lead and contributed to the evaluation of multiple open source integration software and executed POC with the aim to transform integration landscape from commercial software to open source and API driven services

**Lead Java Developer,** [**Hewlett-Packard**](https://www8.hp.com/in/en/home.html) **---------------------------------------------------------------- June 2003 – Oct 2015**

* Senior member of engineering team in Integration and Shared services. Developed multiple in-house middleware products and application supporting A2A integration across 500 IT applications with 5 mil transaction per day.
* Lead high visibility platform cloning activities during HP separation
* Extensively used Java, Oracle, OSGI/Karaf, BEA WS, Apache, Tomcat, HP-UX, Linux, Oracle AQ, AS2, Rosettanet
* Developed B2B solution on SeeBurger BIS supporting B2B integration for HP with 1000+ vendors, traders and partners.

**Integration Platform Separation and Cloning**

Platform Lead Nov 2014 – Oct 2015

**SaFTT**

Lead Java Developer Feb 2012 – Oct 2014

**HPSB**

Java Developer and Technical Lead Feb 2008 – Oct 2013

**B2B Gateway**

Integration Engineer May 2005 – Feb 2008

**EIA, eParts**

Integration and Java Engineer June 2003 – May 2005

**TCS and other IT Services --------------------------------------------------------------------------------- July 1998 – June 2003**

 Java and C++ developer

**Education:**

BS (Bachelor of Engineering in Computer Science), BIT Mesra, India