

Joydeep Banerjee, Senior Principal Engineer

Summary

- Experienced in driving architectural & DevOps process change across the engineering organization.
- Hands on experience in Application Modernization and transformation to microservices in Cloud.
- Expertise in building horizontally scalable, distributed, resilient, loosely coupled cloud native application using asynchronous messaging and distributed databases.
- Successfully developed and managed multiple engineering teams driving them towards a common goal.
- Firm belief in building trusting, blameless, collaborative environment where innovation can thrive, and people are energized.
- Challenges, multi-dimensional and open-ended problems and ambiguity motivate me strongly.
- Passionate about usage of Machine Learning and AI to solve problems in area of Observability.

Experience

Current Role at Red Hat Inc – Senior Technical Leadership Team: Mar 2020 – Present

- Engineering Lead/Architect for Observability solution in Advanced Cluster Management capability: a multicloud management solution based on OpenShift (Kubernetes). A member of the think tank that drives the future of the offering.
- Successfully spear headed an effort to increase scalability of Advanced Cluster Management multiple times using an intense data driven analytical process.
- Working across Red Hat with a team of Architects to materialize Red Hat vision of Innovation at Far Edge including Telco/5G and Automotive industry.

IBM – Leading Product Development with SRE focus: Jan 2019 – Feb 2020

- Leading design and development of IBM Cloud App Management in collaboration with Product owners and other key stakeholders.
- Transforming the product to make it SRE focused and suitable for hybrid application.

Disney – Modernize Application for Digital Distribution of Theatrical Assets: Jun 2017 – Dec 2018

- In partnership with Strategic Initiative and Studio Ops team, managed modernization of a strategically important application that automated distribution of digital assets onto online digital retailers and movie theaters.

- Lead the detailed technical design, architecture and DevOps transformation of the monolith into loosely coupled microservices running on OpenShift on AWS, Azure as well as interfacing with Salesforce. In the process transformation, new features were being added continuously.
- Managed a team of 20+ engineers spread across 3 continents, driving agile mindset into the team running daily scrums etc.; motivated them to think out of the box; encouraged them to have open technical discussion on critical issues and promote a blameless culture among team members.
- Build trust with Product owners, Systems Engineering Team and other key stake holders.

Involved in several key Projects over the years at IBM – 2004 to 2017

- Technical lead of IBM Bluemix Availability Monitoring, a Software as a Service that monitored applications running on IBM Bluemix Cloud from Global points of presence. This was hugely popular service. Did some experimentation to bring in IBM Watson Cognitive Services into the product.
- Jointly led a Streaming Analytics Project Beta offering project to handle Auto scaling functionality of IBM Bluemix. This was a big data application running on Apache Spark, Kafka, MongoDB & Hadoop.
- Experienced firsthand the rigors of what it means to run a cloud application with challenging SLA targets including answering pager calls, Incident Management & Problem Management and prioritizing backlog based on current SLA values. This was SRE work before SRE term was officially coined.
- Played key role in developing and operating (DevOps) a strategic Foundation Service for IBM Bluemix Cloud that handled all Logging and monitoring requirement for applications running in Bluemix. This was built on OpenStack (Heat), Docker, Ansible using Kafka, ELK Stack & Graphite.
- Technical lead of ITCAM for WebSphere component of the IBM APM Portfolio
- Lead a team of a dozen Engineers IBM wide to study how analytics could prove to be helpful in Application Performance Monitoring space. A detailed set of recommendations were given outlining how Exploratory Data Analytics (EDA) and Machine learning techniques could be harvested.

Patents

- Patent: [Predictive Alert Threshold Determination](#)

Employment History

- Red Hat Inc: March 2020 – to date
- IBM Corporation, USA: Jan 2019 to Feb 2020
- Contractor at Walt Disney Corp: June 2017 to Dec 2018
- IBM Corporation, USA: June 2004 to June 2017

Educational Qualification and Other Related Training

- Probabilistic Graphical Modeling, 2012
- Bachelor of Electrical Engineering (BEE) with First Class - Honors, Jadavpur University, Calcutta, 1989.