Karthikeyan Govindaraj

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Summary

Certified Kubernetes Administrator and KCNA with 10+ years of experience in DevOps & Cloud Native development. Skilled in automating workloads, Extending Kubernetes, Docker, OpenShift, and public cloud infrastructures. An Open Source Software enthusiast and writer with DEI mindset.

Experience

Vice President

BlackRock

Jun 2019 - Present (3 years +)

Responsible for delivering the architecture for an opinionated Authentication and Authorization platform for the Aladdin APIs that are exposed to end clients of Aladdin.

Responsible for delivering Multi-tenant solutions for the Kubernetes Clusters at BlackRock at the enterprise level in a more secure and scalable way thus reducing the cost of operating multiple clusters and ending well know phenomena of the clusters sprawl.

Responsible for architecting and delivering the "Zero-to-kubeconfig on day-0" solution to the development teams to embark on the enterprise Kubernetes clusters at BlackRock with out-of-the-box features like CI/CD via GitOps, Metrics, Monitoring, Observability, etc., with opt-in mechanism using annotations.

Also leading the Inclusive Language Council at BlackRock where the "Inclusivity" is brought into code by eliminating the non-inclusive language.

Also responsible for supporting the operations team to maintain and identify the risk of workloads deployed on the deprecated APIs in the Kubernetes Cluster.

Additionally, focusing on the cloud-native developer experience to bring in the standard and impartial developer experience for container-native developers across various operating systems. Aiming to utilize the vCluster to provision virtual clusters, kaniko and other tools for a VDI/ thin client users.

Associate

BlackRock

Feb 2017 - Jun 2019 (2 years 5 months)

Responsible for delivering the complete container-native solution for the Self-Servicing Data Platform to the quantitative researchers.

The platform aims to serve data to the research community at BlackRock, focusing on the data delivery and enhanced data discovery by indexing the metadata about the data programmatically into a cataloging solution built-in, providing an in-house data index with search capability. The platform also takes care of the data Authentication and Authorization and provides the proper access.

Along with the discovery and delivery aspect, the platform offers the capability to bring market research data into BlackRock and creates a virtual data lake across vendor data and Aladdin Data to the quantitative researchers.

Thus solving the problem of Data Discovery, Data Advertising, and Data Delivery BlackRock's quantitative research could be able to see the data usage and cut down the cost of duplicated vendor contracts.

Responsible for maintaining the stability of the OpenShift Container Platform (OCP), a RedHat's distro of Kubernetes in the Development Environment for BlackRock.

Responsible for pioneering container-native solutions for various teams at BlackRock.

Associate
BlackRock
Sep 2016 - Jan 2017 (5 months)
Responsible for delivering PICKET(Process Integration Control Kit and Execution Tool), a metadata-driven platform that serves as a one-stop solution for integrating all workflows, processes, and data and acts as a single to provide lineage, monitor execution, control them, subscribe to notifications and provide a unified reporting.

Works on the controller-agent model and uses the protobuff for seamless integration with all agents.

Senior Associate
Toyota North America
May 2016 - Sep 2016 (5 months)
Responsible for delivering a new platform for managing and designing the accessories to Toyota's Corporate Accessory Department (CAD).

Additionally, I was a tech lead for improvising the performance of the CAD's existing accessories portal, which was designed with JSF and had complex tree mappings at multiple levels.

Systems Engineer Development | Onsite Coordinator
Northern Trust Corporation
May 2015 - Apr 2016 (1 year)
Managed multiple projects in parallel through on-shore/off-shore model. Accountable for Architecture, Design, development & deployment, and delivery of Private Equity Desktop, Investment Operations Outsourcing(Bank Loan) platforms.

I was also responsible for designing the "Audit Request" tool for the Private Equity Desktop, which incorporates the entire workflow of auditing, flagging, resolving, and tracing capabilities.

Additionally, was in charge of the batch orchestration in the IOO platform for Bank Loans.

Systems Engineer Development | Onsite Coordinator

Northern Trust Corporation

Jun 2014 - May 2015 (1 year)

Responsible for the development of the "Cash Distribution" platform and also as Onsite Project-Coordinator late in the project.

Cash Distribution in Northern Trust is to provide the dividend of the investment to the stakeholders in the form of Cash. The instruction from the investors on what the breakup should be will arrive at Cash Distribution in the form of "Expected Cash Trade". This will be processed to kick start all the automation processes.

This has sped up the process of providing dividends to investors in a robust way.

I also served as an Onsite Coordinator for the project after moving to Chicago in March 2015.

Gained experience as an Onsite Coordinator managing two teams in different geographies and engaged with stakeholders/users of the platform directly.

⚓ Systems Engineer Development | Tech Lead

Northern Trust Corporation

Aug 2013 - Jun 2014 (11 months)

Responsible for a team of three to enhance the Private Equity Desktop (an internal platform for private equity asset servicing) to add the new functionality for "Capital Call Execution".

This functionality eliminates the manual work and enhances the system by automating the business process and trade processing. The trades in XML format from upstream will be processed in high volumes and interacts with multiple systems and workflows cutting through multiple teams.

Gained experience as a tech-lead to a team of three and hands-on with Java, J2EE, Struts, Spring, Hibernate, JSP, Web services, WebLogic, Oracle 10g, JavaScript, JQuery, TFS, Apache Ant.

⚓ Systems Engineer Development

Northern Trust Corporation

Jan 2013 - Aug 2013 (8 months)

Responsible for delivering an end-to-end platform called "File Extract" for extracting the non-structured data that are uploaded by the London users of GPA to automate and speed up the workflow for the time-sensitive processes of APAC Clients. Executed the complete project based on the TDD model.

Provided the on-screen report combining data from various systems, created sharable reports using Jasper Tool,

Gained hands-on experience with J2EE, Spring, Struts, Hibernate, JSP, Oracle 10g, POI Frameworks, Jasper, Weblogic, Rapid SQL, Eclipse IDE.

⚓ Assistant Systems Engineer Development

Northern Trust Corporation

Jul 2012 - Jan 2013 (7 months)

Responsible for a reconciliation project for the "Global Platform for London Alternatives" tool which is an Arch11 application and is mainly designed for its London users. The London user statements will be arriving and should pass certain stages. Each stage has its own functionality like reminding the client about their pending funds, instructions, and so on.

Designed a robust batch orchestrator to make the document move to history once all the stages have been passed.

Gained hands-on experience with Java, J2EE, Hibernate, Struts, Spring, Weblogic, Oracle 10g, Jasper Reports, RapidSQL

Assistant Systems Engineer Development
Northern Trust Corporation
Feb 2012 - Jul 2012 (6 months)
Responsible for developing multiple modules and unit tests of the "Global Treasury Management" application.

Gained hands-on experience in Java, Struts. JDBC, Oracle 10g, AJAX Query

Education

K.S.Rangasamy College of Technology
Bachelor's degree, Computer Science
2007 - 2011

Licenses & Certifications

Certified Rancher Operator - Rancher
7669cbca871d4596b3362d730d8247bd

MSUS Cloud Skills Challenge Champion - Microsoft

Fundamentals for Kyverno - Nirmata

Speaker: Open Source Summit 2021 - The Linux Foundation

KCNA: Kubernetes and Cloud Native Associate - The Linux Foundation
Issued Nov 2021 - Expires Nov 2024

CKA: Certified Kubernetes Administrator - The Linux Foundation
Issued Nov 2021 - Expires Nov 2024

Open Source Foundations - IBM

Software Bill of Materials - The Linux Foundation
LF-0fh5yj7zy9

LFC101: Inclusive Speaker Orientation - The Linux Foundation

Skills

Kubernetes • Docker • Cloud-Native Architecture • Web Services • Design Patterns • Requirements Analysis • Software Development • SDLC • Software Development Life Cycle (SDLC) • Investment Banking

Honors & Awards

BlackRock Principles OneBlackRock - BlackRock
2020