Abhijit Patharkar

Staff Engineer - VMware Software India Pvt. Ltd.
Bachelor of Engineering - Computer Science

Personal Details

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Technologies

JEE, Spring, Spring Boot, Spring Boot Plugins, Spring Cloud, GoLang, Angular, AngularJS, Android Native, HTML/CSS.

Platforms

Kubernetes, Pivotal Cloud Foundry, Cloud Virtual Machines, Service Meshes, Knative.

Architecture

Micro-services, Design Patterns, Messaging, Streaming, Multi Cluster, Kubernetes CRDs and Reconcilers.

Logs and Analytics

LogInsight, AWS CloudWatch, ELK, VMware Tanzu Observability (Wavefront)

Infrastructure

Compute: AWS EC2, Azure Virtual Machines, Google Virtual Machines.
Containers: AWS ECS, AWS ECR, AWS EKS, Google Kubernetes Service, Azure Kubernetes Service.
Storage: AWS S3, AWS EBS, Azure NetApp Files, Custom NFS Server, Google Filestore.
Provisioning: Terraform, AWS CloudFormation, Azure Resource Manager.

About Me

Working as a Staff Engineer at VMware (initially in VMware's Office of the CTO - OCTO, now working in Network and Security BG CTO Group) on building products around modern application architecture primarily around Kubernetes. Prior to VMware I founded a technology consulting startup called Scriptuit Technologies with a focus on scalable cloud architecture and building products from scratch on cloud. This gives me a unique experience of hands-on development, design and architecture, team building/leading. I pride myself in debugging issues, logs with great speed. I am both self-driven and motivated, and constantly experimenting with new technologies.

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Patents:

Cloud-Distributed Application Runtime - An emerging layer of multi-cloud application specific fabric (Patent Pending in US and India Patent Office)

Designing and defining a common cloud abstraction layer for application services, containing platform-level functionality that improves ongoing deployments and resiliency of distributed applications spread across multiple clouds (Public and Hybrid). Kubernetes forms the bottom most layer, service mesh the next layer, and then cloud runtime sits on top of service mesh to offer the various cloud runtime QoS service functions.

Talks:

Taking a Modern Approach towards Application Resiliency

Click Here to view the talk/session given at VMworld 2021 giving a unique perspective on modern resiliency patterns. (Available to view with a free registration, can share my login details on-demand).

Professional Journey

Present

VMware Software India Pvt. Ltd.
Staff Engineer - CTO Group Network & Security Business Group
Mazinger (API Exchange)

Working on VMware's Kubernetes based API Management Platform (codenamed Mazinger), focussing on the complete API journey in-line with the API/Design first ethos in VMware. Mazinger's focus includes the whole API lifecycle which includes: API Design and Collaboration, API Development and Deployment, API Observability and API Security Policies. Backed by Kubernetes based data-model (CRDs), GoLang microservices and Kubernetes Custom Resource reconcilers.

March 2021

VMware Software India Pvt. Ltd.
Staff Engineer - Office of the CTO (OCTO)

Cloud Distributed Application Runtime

See next page for details.

Patent implementation demoed in VMworld 2021, showcased a multi-cloud application runtime built on top of VMware Tanzu Service Mesh, with additional declarative capabilities of policy monitoring and enforcement across various infrastructure and service level components of an application. Backed by Kubernetes CRDs and GoLang Microservices.

June 2015

Scriptuit Technologies
Founder & CEO (Proprietor)

Vasten on Cloud (For Vasten Inc.)

Automated infrastructure provisioning for the Vasten tool (running EDA simulations) on K8S containers on Google Cloud (Google Kubernetes Service), used TerraForm for provisioning. Had a microservices based architecture and was deployed on Google Kubernetes Engine.

SiCAD II (For SiCAD Inc.)

For phase 2 of the SiCAD platform, they had partnered with IBM to provide a combined offering to run the same service on IBM Cloud (then called SoftLayer). Backed by Spring Boot, Postgres.

RunWay Platform (For Estee Lauder Companies)

Involved in architecting and delivery for the RunWay (Brand Portfolio Platform - New Product Launch) Platform. The platform gave a holistic view of the complete life-cycle of a new product that needs to be launched in the market. Had a microservices based architecture and was deployed on Azure Kubernetes Service. Backed by Spring Boot and Cosmos DB.

Staff Product Concession (For Estee Lauder Companies)

Involved in developing and delivery for the Staff Product Concession Platform where employees were given credits based on work hours which they could reimburse against Estee Lauder Companies e-commerce purchases. Backed by Spring Boot and Cosmos DB.

Carousel (For VMware Inc.)

Designed and developed an opinionated multi-cloud, multi-technology automated app deployment platform for PCF, Kubernetes and VM based deploys, the platform also supported Android and iOS Native mobile app builds. Backed by Spring Boot microservices, Postgres, Concourse and Pivotal Cloud Foundry.

HelpNow Plus (For VMware Inc.)

Productization of the existing HelpNow application on Kubernetes. Self-service application catering to all the customization and needs of the various services that a ticket can be raised for. Backed by Spring Boot and Postgres on Kubernetes.

Cosmic Eye (For Enumerati Solutions LLP)

Designed and developed a cloud based solution consuming raw sensor data per minute, processing it on Cloud and providing analytics on the same. Had a microservices based architecture and was deployed on AWS EKS. Backed by Spring Boot microservices and MongoDB.

FreeMo / BeastMobile (For FreeMo Inc.)

Designed and developed a Spring Boot and Angular based multi-tenant SaaS based solution for MVNOs to provide targeted advertisements on the lock screen of the mobile app, earn credits and redeem the credits against their mobile service bill.

OnePageSpotlight (For Jade Plant Ventures)

Designed and developed a online cloud based platform for budding artists to showcase their art / talent. The platform also enabled casting directors to spot and hire any talent for a job. The platform was extensive enough to cover the entire lifecycle. Backed by Spring Boot microservices and MongoDB.

May 2012

Mindstix Technologies Pvt. Ltd.
Delivery Head and Lead Architect

vCloud Foundation (For VMware Inc.)

VMware's flagship product VCF, was one of the initial members on-boarded on the vCloud Foundation team and was part of the monitoring/alerting feature and also was leading the whole contractor team. Led their Pune team for UI as well as backend.

vCaamp (For VMware Inc.)

Shorthand for "vCloud Automation and Management Platform" for automating workload deployment based on profiles and environments. Backed by Spring microservices and Postgres.

WaveMaker (For VMware Inc.)

A tool catering to the Rapid Action Development model where target applications were being developed using the tool. Responsible for adding the GemFire cache service to the target application. Had legacy JAVA code which needed to be extended to further business features.

Trade Decision Support System (For Droit Financial)

Involved in designing and developing the platform for helping out derivative traders to help in deciding whether and to whom the derivatives traded need to be reported. Post 2008 debacle, there were some complex rules introduced by the regulators for trade reporting and the platform used Drools Rule Engine into making the decisions. Backed by Spring and MySQL.

SwapMap (For Droit Financial)

Post 2008 the regulators started posting all the derivatives trades to public platforms. The application used this raw data, processed it and provided near real time insights for derivative traders. Backed by Spring and MySQL.

Axis Mobile Remittance (For Axis Bank UK)

A mobile application designed and developed for customers of Axis Bank UK facilitating them to send money from the UK to India. Was leading the mobile application effort for this project.

June 2009

Clarice Technologies (Now Globant)
Senior Software Engineer

Transaction Banking System (For Nucleus Software)

A web based application catering to backend banking operations. The application talked to the core backend using SOAP and REST based services. Backed by Struts monolith.

StirTheMix

An interesting platform to unite all the drink lovers around the world. This consumer application needed to be scaled enough to accommodate a large number of active users on the site as well as in the database. I was introduced to DB Sharding in this project and soon became my interest during that time.

SiCAD (For SiCAD Inc.)

Although a start-up, it was a technically exciting cloud based solution for the EDA industry to run their HPC simulations on cloud. The platform automatically provisioned Infrastructure on cloud installing various tools and provided the end-user a perfect pay-as-you-go option to run their simulations. Backed by Struts and MySQL, deployed on AWS EC2.

July 2008

Spectra Infowave
Developer

School Management System (For Antwerp British School)

PHP and Sencha based multi-tenant SaaS solution for a complete end-to-end school management of their student, classes and courses.

Linguista (For Antwerp British School)

PHP and jQuery based course management SaaS solution for language courses. The web application was completely dynamically localized in various languages and the database was designed accordingly.

Service Center Management (For Aar Em Electronics)

A solution to manage the inventory inflow and outflow of backup inverters of a service center.

Academic Journey

June 2003

Rajarshi Shahu College of Engineering, Pune
Student of Bachelor of Engineering - Computer Science

Library Management System

As a student helped the college library in maintaining their database of books and reminders to students about returning the books borrowed.

Seminar on AJAX

AJAX, a new concept back then was a game changer in the world of web technologies. It was important for us to explain it to the student community. Presented a seminar on AJAX, explained the concept, its advantages, disadvantages and key use cases.

Auto Directory Submitter

Tapping into the Google Ranking concept back when it was new, emerged a lot of directories to list and backlink our sites for a better Google Ranking. Developed a Automatic Directory Submitter which would scrape the various directories available online and submit the site to those directories.

June 2001

N.C.L. Junior College, Pune
Student for 11th and 12th (HSC)

June 1991

St. Joseph's Boys High School, Pune
Student for 1st till 10th (SSC)