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

Docker, 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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medium.com/@abhijit.patharkar   abhijit-patharkar.github.io

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Patents:

Cloud-Distributed Application Runtime - An emerging layer of multi-cloud application specific fabric (Filed in India Patent Office, filing in US Patent Office in-progress)

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

Mar 2021 till date …

VMware Software India Pvt. Ltd.

Staff Engineer (Office of the CTO & Network and Security Business Group's CTO Office)

Major roles and responsibilities include coding, high level design, low level design, leading a technical team, debugging, code reviews to name a few. Majorly worked on GoLang, Micro-service architecture, and Kubernetes. Involved in the following applications:
  - API Security & Management Platform (API Runtime)
  - Cloud Distributed Application Runtime

Was also involved in co-authoring a patent and giving a talk on Application Resiliency.

Build

Maven, Gradle, Node Package Manager, Buildpacks, Kpack.

CI/CD

ArgoCD, FluxCD, Jenkins, Concourse, AWS CodeBuild, AWS CodeDeploy, AWS CodePipeline, VMware Tanzu Build Service, VMware Tanzu Application Platform, Flux CD, Gitlab Runners, Kpack, GitOps.

Service Meshes

Istio, VMware Tanzu Service Mesh, AWS App Mesh, Gloo Mesh, Linkerd.

Code Repositories

GIT (GitHub, GitLab), GitHub Pipelines, GitLab Pipelines and Runners, Perforce, SVN.

APIs

REST, gRPC, GraphQL.

June 2015 to Feb 2021

Scriptuit Technologies
Founder & CEO (Proprietor)

Founded a technology consulting startup focussed on Cloud Applications, Cloud Operations, Cloud Migration, Cloud Adoption. Was responsible to build a technical team from scratch, deal with clients to design and develop their solutions and do hands-on coding. Clients ranged from large scale enterprises to Start-ups. Following were a few applications that I was involved in:

- EDA Simulations on Cloud.
- Brand Management Platform (For ELC Group of Companies)
- Multi-Cloud DevOps automation platform (For VMware Inc.)
- Automated Ticketing solution (Fir VMware Inc.)
- AI based solution for Cinema Halls and distributors.
- Ads for bill solution (MVNO based)
- Social Network for artists.

This stint taught me challenging new technologies like Scala / Play, scaling applications based on consumer / traffic demands, microservices architectures, designing and developing applications for scale, developer and operator pain points during application CICD to name a few.

May 2012 to May 2015

Mindstix Technologies Pvt. Ltd.
Delivery Head and Lead Architect

At Mindstix, my roles and responsibilities included hands-on coding in Spring, Spring Boot, leading a technical team of around 20 engineers, technical evaluation of lateral and fresher hires. Following were a few applications that I was involved in:

- Cloud Automation (For VMware Inc.)
- Trade Decision Support System (Supporting complex trades)
- Mobile Remittance (For Axis Bank)
- Rapid Application Development Platform (For Wavemaker)

This stint taught me challenging new technologies like Spring, Spring Boot, developing relationships with customer technical teams, setting up hiring patterns and coding tests, developing applications for scale to name a few.

June 2009 to May 2012

Clarice Technologies (Now Globant)
Senior Software Engineer

At Clarice (now Globant), my roles and responsibilities included hands-on coding in PHP - Zend Framework, JEE - Struts Framework. Following were a few applications that I was involved in:

- Social Network for drink lovers.
- EDA on Cloud
- Transaction Banking System

This stint taught me challenging new technologies like Zend and Struts framework, got introduced to AWS Cloud and fell in love with it, countless coding hours, Cloud Automation and SaaS.

July 2008 to June 2009

Spectra Infowave
Developer

Joined this company fresh out of college, and my roles included hands-on coding in Symphony framework. Following were a few applications that I was involved in:
- School Automation.
- Multi-Lingual Course Management

This stint taught me challenging new technologies like Symphony, developing multilingual applications, designing databases for multilingual applications to name a few.

Academic Journey

June 2003

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

As a student along with my academics I also helped the college library in maintaining their database of books and reminders to students about returning the books borrowed. In my 3rd year, I was responsible to educate my batch with new cutting edge technologies where I gave a seminar on AJAX, and as a final year project, worked on a Automated Directory Submitter useful in getting your website's rank up the Google Ranking algorithm.

June 2001

N.C.L. Junior College, Pune
Higher Secondary Education

June 1991

St. Joseph's Boys High School, Pune
Primary & Secondary Education