DevOps| Kubernetes | Golang| JavaScript| React| SPA |

SAMIR PRAKASH

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Work status (USA): H1-B
Current employer: Apple Inc.
Current Location: Dallas, TX, USA

Summary

I am a professional full-stack developer architect with 15+ years of software design, development and delivery experience using cutting-edge technologies. Over the years, I have had the opportunity to work with esteemed organizations like Apple Inc, HCL, Infosys Ltd, CA Inc, Toyota Motors Europe and Toyota Connected. This has helped me to enhance my learnings over multiple domains and provided me the rich multi-cultural experience and understanding of working with clients based out of India, USA and Europe.

I am an enthusiastic self-motivated learner who likes to be current with the latest technology trends. I am proficient in DevOps (Docker/Kubernetes/AWS/Azure/GCP/AliBaba Cloud/AliCloud) and full stack cloud native application development (Golang/Spring/JavaScript/HTML5/CSS3/React). I am an open source evangelist with a sharp eye for standards, best practices, automated work flows, application security considerations and process adherence for my clients.

I am a team player who has been working with small and large teams all my professional life. I believe that a properly enabled team can do wonders to a project and I have always tried to implement this philosophy as much as possible. I have been a hardcore AGILE practitioner since early 2010 and fully understand the processes and benefits of working in an AGILE team.

I have excellent inter-personal, leadership and presentation skills. I have excellent work ethics and have tried to hone these skills over the time with constant practice and dedication. Working with multiple clients across continents, cultural learnings, presenting new project ideas, describing best practices to clients, collaborating/managing with large teams (onshore and off shore), dealing with various departments/vendors and solving critical problems with a JIT approach has also helped me a lot.

I am passionate about creating and delivering best user experience for my clients and their end users, implementing cost effective development practices, designing and implementing cloud based distributed micro services architecture, enabling teams with DevOps practices for automating development and deployments to reduce effort and cost and enabling my teams to deliver faster and better products using AGILE processes.

In my free time, I work on enhancing my personal knowledge about machine learning, deep learning, data science and artificial intelligence by working on various side projects. I have also added some details about my current interests and learnings in the projects section below. You can view my current projects @https://github.com/samirprakash.

Skills

Programming Languages
Golang, JavaScript, CSS3, HTML5, Python3

DevOps/Cloud
Docker, Kubernetes, Jenkins, AWS, Azure, Google Cloud, Alibaba Cloud, AliCloud, Spinnaker

Frameworks
Spring Boot, REST, React, VueJS, Express JS, SAAS, Bootstrap, LESS, SCSS

Software Platforms/Tools
Ubuntu 16.04, MacOS, IntelliJ IDEA/WebStorm, Node JS, Atlassian JIRA/Bamboo/Stash/Confluence, Bitbucket, Visual Studio Code

Domains
Connected Car, Automotive, Insurance, Security, Software Defined Networking

VCS/CMS
GIT, Tridion

Databases
PostgresDB, MongoDB

Key Accomplishments

- Analyzed and understood the client requirements for implementing DevOps practices within teams
- Discussed and diagnosed the problems being faced by the micro service development teams to increase productivity
- Individually contributed in defining and implementing DevOps best practices
- Worked relentlessly towards successfully achieving DevOps implementation targets set by client
- Enabled teams to be self-reliant and more productive by saving their time and effort
- Automated build and deployment pipelines for micro services for faster builds and better response turnaround
- Streamlined development practices for increased productivity and better delivery timelines for client
- Streamlined cloud resource management saving client's investment
- Designed cloud-based architecture for front end applications development and deployment
- Enabled client to move from in-house infrastructure to cloud based infrastructure
- Cloud based movement led to financial savings on client's behalf due to better resource utilization
- Understood and refined front end technology stack as per client's requirements
- Enabled development teams with sessions and coaching on technology stack
- Enabled teams to leverage the GIT workflow by conducting sessions
- Enabled teams to understand and implement AGILE processes for better productivity
- Helped client to better engage with off shore development teams by working as a bridge
- Worked with off shore teams for them to understand client's work culture
- Worked in assimilating requirements from multiple departments to create a structured product architecture

Work Experience

SOFTWARE ENGINEER – Apple Inc. – Dallas, TX - December 19 - Present

- Implementation of software defined networking for Apple retail stores across the globe
- Requirement analysis for network automation by collaborating with network engineers
- Defining common goals across teams to follow a well-defined development path
- Coordination and collaboration with software engineers across diversified teams to achieve these goals
- Design and development of software and tools required by the network engineers
- Defining and implementing processes for increased productivity
- Creating and maintaining CI/CD pipeline for development teams
- Working on managing multiple build CI/CD pipelines leveraging cloud based environment with Docker and Kubernetes
- Create and maintain multiple development and deployment environments i.e. DEV, ACC and Production
- Testing, finalizing and promoting builds over multiple environments based on pre-defined strategies and policies
- Enabling development teams to implement best practices for software development
- Enabling teams to understand and implement JavaScript/HTML5/Node based applications
- Enforcing application, container and orchestration level security for frontend and backend micro services
- Enabling teams to implement GIT workflow using feature-based development, Pull Request, Peer reviews, etc.
- Enabling teams to understand and implement DevOps as a day to day activity
- Implementing best practices for creating/tagging/maintaining Docker images
- Working on developing optimized CI/CD workflows using latest trends in current technologies

DEVOPS ENGINEER – Toyota Connected – Plano, TX - January 17 - November 18

- Enabling development teams to deliver faster and better by implementing DevOps practices
- Creating and maintaining CI/CD pipeline for development teams using Jenkins/CircleCI/Visual Studio Team Services
- Create local and VM based solutions for Jenkins CI/CD environment
- Working on managing multiple build pipelines using CircleCI CLI for CI/CD on Kubernetes
- Implemented a working solution using visual studio team services for CI/CD process
- Create and maintain multiple development and deployment environments i.e. DEV, QA, Staging, Pre-Production and Production
- Testing, finalizing and promoting builds over multiple environments based on pre-defined strategies and policies
- Containerizing Spring Boot micro services with Docker
- Containerizing JavaScript Angular and React based client-side applications with Docker
- Enabling development teams to implement best practices for Java micro services
- Enabling teams to understand and implement JavaScript/HTML5/Node based applications
- Enforcing application, container and orchestration level security for frontend and backend micro services
- Enabling teams to implement GIT workflow using feature-based development, Pull Request, Peer reviews, etc.
- Enabling teams to understand and implement DevOps as a day to day activity
- Creating structured logging implementation for consistent project wide logging solution
- Creating publish-subscribe model leveraging AMQP and RabbitMQ from spring boot for micro service interaction
- Configuring private registries on Microsoft Azure and AWS for Docker images
- Implementing best practices for creating/tagging/maintaining Docker images
- Implementing code coverage guidelines using SonarQube and JaCoCo for Java and JavaScript based applications
- Implementing cloud based artifactory solution using JFrog
- Implementing profile-based configuration for Java micro services for multiple deployments on Kubernetes
- Implementing externalized configuration server for Java micro services for Kubernetes deployment management
- Configuring Microsoft Azure and AWS as a cloud service provider for project requirements
- Container orchestration using Kubernetes 1.8 and Microsoft Azure
- Managing Pods, Deployments, Services on Kubernetes
- Creating and maintaining deployment scripts for Windows and Linux environments for Kubernetes deployments
- Working on developing optimized CI/CD workflows using latest trends in current technologies
- Evaluating PaaS, SaaS and IaaS providers to provide the most cost-effective solutions

UX/UI PROJECT LEAD – Toyota Motors Europe - Brussels, Belgium - April 13 – November 16

- Worked with UX agencies for Pan-European SPA design
- Developed and delivered robust web apps for Toyota and Lexus
- Hands-on Development of Mobile first responsive web SPA
- Hands-on implementation of SSO based IAM system for web app security
- Implemented product internationalization for 28 countries and around 46 languages across Europe
- Leveraged latest open source technology stack – Backbone/Marionette/React/Node/Express/Mongo DB/Redis
- Frontend JavaScript framework implementation with HTML5 and CSS3
- Enabling SAAS based bootstrap implementation for UX enhancement
- Implemented GIT based workflow for team development
- Implemented and leveraged AGILE using JIRA and Confluence
- Management of cloud-based deployment infrastructure with AWS and Heroku

- Implemented continuous integration, testing and deployment process with Bamboo and Stash
- Created and refined local development environment using Grunt and Gulp build pipelines
- Automated packaging and deployment using Grunt/Gulp pipelines
- Implemented frontend testing frameworks with mocha and chai libraries
- Integration with In-Car head units for leveraging Telematics services for end users
- Developed and integrated connected car app store for Toyota and Lexus
- Worked on integration and delivery of connected car app store for in-car devices
- Managed a development team of 8-10 developers in onshore/offshore development model
- Worked on requirement elicitation and analysis
- Worked on design documents and artifact creation for frontend SPA
- Worked on development and product testing
- Finalized delivery processes and implemented production support post go-live
- Project coordination with Toyota and other suppliers/vendors
- Face to face client handling by generating and presenting project status and projections
- Worked with dealers in various countries within Europe for understanding requirements
- Implemented best practices for enhanced development and testing across teams
- Integrated with server-side telematics services using Spring REST-full applications
- Live websites: www.toyota.co.uk and www.lexus.co.uk

LEAD TELEMATICS JAVA/JAVASCRIPT DEVELOPER- Toyota Motors Europe – Brussels, Belgium -April 12 – January 13

- Developed Java Spring based REST API for providing Telematics services to Toyota and Lexus end users
- Individually developed JavaScript/HTML5/CSS3/React client-side application for the backend services
- Leveraged Backbone and React JavaScript library for front end development
- Leveraged Bootstrap and CSS3 frameworks like LESS and SASS for UX implementation
- Worked on implementing build and deployment pipelines for frontend applications
- Integrated development to provide In-Car services on infotainment head units for Toyota and Lexus vehicles
- Collaborated with in-car device manufactures (Harman/AW) for integration with in-car infotainment systems
- Collaborated with service providers (Google/Yandex/TomTom) to provide real time data feed on route mapping and navigation
- SSO implementation for providing a smooth UX using React for vehicle owners
- Integrated with Bluetooth services and mobile service provider
- Implemented OTA real time solutions for purchase, download and usage of in-car apps on head units
- Implemented real time monitoring for fleet of vehicles to provide real time vehicle tracking
- Created infrastructure to update a centralized Pan-European vehicle database for Toyota and Lexus
- Implemented distributed application architecture to support in-house and cloud-based services
- Helped the team move from SVN to GIT workflow
- Helped the team to learn and understand AGILE processes

JAVA UI DEVELOPER – CA Inc. - Framingham, MA - Sep 09 – October 11

- Worked on development of IAM site-minder admin portal
- Worked on fine-tuning IAM based framework for CA Inc.
- Worked as an Individual contributor to core development

JAVA DEVELOPER – Chubb Insurance - Chandigarh, India - April 07 – July 09

- Worked on development of insurance-based product
- Worked on Java EE architecture-based development
- Worked on creating unit tests for core logic
- Worked as an Individual contributor for core product development

FRONTEND DEVELOPER – HCL – New Delhi, India - January 05 – February 07

- Worked on in-house support product development
- Worked on JSP and servlet technologies
- Worked on JavaScript and HTML

Education

BACHELOR OF TECHNOLOGY – Sikkim Manipal Institute of Technology – Sikkim, India - 2001-2005

- Specialization: Computer Engineering

Employment

INFOSYS LTD – Chandigarh, India – April 2012 – till date

- Position: Technology Lead (Java/JavaScript/Full-Stack)

NIIT TECHNOLOGIES – New Delhi, India – October 2011 – March 2012

- Position: Technology Lead (Java/JavaScript/Full-Stack)

INFOSYS LTD – Chandigarh, India – April 2007 – September 2011

- Position: Technology Analyst (Java/JavaScript/Full-Stack)

HCL – New Delhi, India – January 2005 – March 2007

- Position: Software Consultant (Java)

Projects

- Working on a Golang based backend API template for code reuse @ https://github.com/samirprakash/go-bank
- Working on creating docker and Kubernetes starter pack with helm @ https://github.com/samirprakash/multi-tier-docker-k8s
- Working on an e-commerce web application using React and Golang @ https://github.com/samirprakash/crwn-clothing
- Working on a Instagram clone using React, Golang and Postgres
- Working on a Netflix clone using React and Golang and Postgres
- Working on learning and implementing deep learning with Python 3, SciKit Learn and Tensorflow