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EXPERIENCE

Software Engineer working closely with a large, cross-functional team and Improve developer productivity

VMware by Broadcom

10/2020 - 06/2025 Bangalore, India

- Defined short- and long-term goals both for the project. Created a strategy for migrating VMware's flagship product ESXi hypervisor build system from SCons to Bazel.
- Mentored juniors and team in India, China and US to successfully port static and shared libraries, along with binaries.
- Integrated VMware-specific custom toolchains for C/C++, Golang and tools for building kernel and user-space modules through Bazel to use clang, gcc for x86, ARM64 and RISC
- Very good understanding of host and target environment and integrated x86, Arm64 to build in single build process for target hardware that supports cross platform binaries and reduced the hardware requirement.
- Gathering specific tooling requirement, preparing test plan and implemented toolchain.
- Defining Test policies for any code change in build system.
- Created and implemented custom Bazel rules, not natively available, to facilitate the migration of Linux and Microsoft drivers. Also, upstream the changes.
- Optimized local and remote builds both, leveraging Remote Build and Cache (RBE / RBC),
- Collected and analyzed real-time performance metrics from the Bazel system, visualizing progress and improvements during the migration process, and fine-tuning RBE and RBC.
- Reduced P90 build time from 100 minutes to just 25 minutes to improve the developers deploy and debug cycle. Increased deployment speed by 75%, resulting in saving developers time even with reduce hardware capacity with VMware acquisition.

Senior Engineer working closely on customer facing project and improved Apps deployment cycle to 5 min. for Test and Production env.

IBM System Labs

01/2018 - 09/2020 Bangalore, India

- Developed a CI/CD framework (in Golang) to build and run 25 sanity/custom checks across a monolithic repository, supporting checks for Java, Python, Golang, bazel, starlark, and managed library versioning across all supported languages.
- Assisted customer in optimizing data loading and extraction from Parquet files by offloading computational workload to NVIDIA GPU, significantly improving performance and reducing processing time by factor of 30 times as compared to CPU.
- Implemented credential management service to securely store and manage passwords locally and in version control, leveraging public/private key management.
- Came up with zero-trust architecture for gRPC microservices using protobuf and IBM root-level certificates to build and deploy a customer service mesh.
- Maintenance of Jenkins and Travis CI/CD pipeline.
- Migration of services from IBM cloud to Red Hat OpenShift at Red Hat acquisition.
- Recover team cost from monolithic repo contributors to use custom CI/CD.
- Python2/3 rule supports in same repository.
- Good knowledge on IBM blue cloud, Kubernetes, Docker, docker swarm, ingress, service, networking and security, L3 vs L7,
- Open-source contribution.

Specialist working on customer centric product

Hewlett Packard Enterprise (HPE)

01/2016 - 01/2017 Bangalore, India

- Hardware installation and configuration of HPE DL360 Gen10 server series, cabling and switch/routers.
- Creating and managing Cluster storage, network and compute thru API calls
- Defining deferent types of networking for storage, fault tolerance, hardware and VM management
- Written Play book to configure hardware, apply patches, storage configuration, hypervisor installation cluster creation in vCenter, expansion and shrinking of cluster.

Senior Software Engineer

EMC2 Data storage

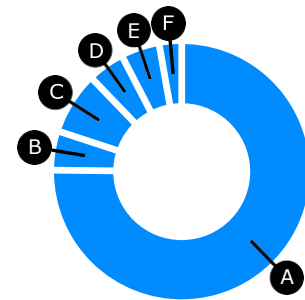
01/2011 - 01/2015 Bangalore, India

- Development of REST API in Java Spring and developed GUI based on Flex and mobile Application based on android
- Active development of EMC Cloud tiering appliance for file virtualization and cinder driver enhancement for block storage
- Integration with EMC VNX/VNXe and enhance driver compatibility

SUMMARY

Harish is a polyglot seasonal engineer with expertise in large-scale system applications, focusing on managing company-wide software and hardware infrastructure through code. His craftsmanship skills enables him to produce long-term maintainable code within confined timelines. He has experience working on long running projects span on muti year effort and deliver them successfully. Harish also have experience in optimizing the data processing, text to speech on GPU and integration of image generation and LLM(llama) models with high throughput.

DAY IN, DAY OUT



- A** Design, Coding, Review code
- B** Bi-weekly progress readout to directors and VPs, Redefine milestones and sprint planning.
- C** Cross team technical discussion, Requirement gathering, Test plan and execution
- D** Mentoring and unblock juniors, running feedback, roll up status
- E** Taking interviews, Conducting trainings and other Utility work.
- F** Companywide meetings, Quarterly Result.

SKILLS

Devops	CI/CD	Kubernetes.	Docker Swarm	
Microservice	Grpc	restAPI	Hypervisor	
Python	Java	shell	Golang	C/C++
Docker	Jenkins	Travis	Perforce	Git
Build Tools	Bazel	Scons	Maven	make
IBM Cloud	Jira	Bugzilla	Cloudant	DB Nosql
CUDA	pyTorch	Parquet	cuDF	ML/AI

Software Engineer

Wipro

01/2007 - 01/2010 Bangalore, India

- Supporting Maximo application, User admin module for control the access control.
- Support and Development of PSNext for resource management
- Power hookup GUI application for customer working on oil fields

EDUCATION

Master of Technology in Software Engineering
Bachelor of Technology in Computer Science