Arjun Naik *October 29, 1987*

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Summary

An experienced software engineer with a background in infrastructure and its automation.

Arjun has a Master's degree in Distributed Systems Engineering for the Technical University of Dresden. A software engineer at heart he is also deeply interested in building tools and infrastructure for large systems where automation is key. He likes to work in an environment which fosters creativity and offers interesting challenges.

Experience

Red Hat Berlin, Germany
Senior Software Engineer OpenShift *Jun 2021 - Current*

Developement of operators to extend the functionality of the OpenShift Container Platform through operators. Adding new features to the core OpenShift platform in the areas of networking and authentication and cluster upgrades.

Technologies Used: Go, OpenShift, controller-runtime, kubebuilder

Red Hat Berlin, Germany
Senior Software Engineer SRE *Jul 2020 - May 2021*

Development and standardization of operators used to managed Openshift Dedicated clusters. Improving the monitoring of features used in OSD clusters.

Technologies Used: Go, OpenShift, Prometheus, controller-runtime, kubebuilder

Zalando SE Berlin, Germany
Senior Software Engineer (AWS and Kubernetes) *Aug 2018 - June 2020*

Provide Kubernetes clusters and CI/CD integration to feature teams in Zalando to deploy their applications. Monitoring and upgrading the clusters so that teams can benefit from improved security and reliability. Development of internal and opensource tooling for cluster users to deploy their applications seamlessly and perform application deployments with advanced features like pre-scaling, blue-green deployments and easy rollbacks. Improved autoscaling controllers in the clusters so that user workloads can scale both vertically and horizontally. Occasional contributions to upstream Kubernetes open source projects.

Technologies Used: AWS, Go, Kubernetes, Ubuntu.

Cubits Berlin, Germany
Site Reliability Engineer *Jan 2018 - May 2018*

Migration of the stack from baremetal to GKE clusters. Modified existing services to run on Kubernetes

Technologies Used: Google Compute Platform, Terraform, Helm, Prometheus.

Zalando SE Berlin, Germany
Site Reliability Engineer *August 2015 - December 2017*

I was hired as part of the SRE team which would assist the feature teams in the migration of a monolithic codebase to microservices in the cloud. During this process of migration we assisted teams in automating their deployments, instrumenting their applications for monitoring and performed load test to verify that the newly built services could satisy the performance and scaling requirements. I was later moved to the Personalization department where I worked with the Recommendations team to deliver personalized item recommendations with Service Level Objectives(SLOs). I continued automating the deployments of the their infrastructure and wrote other automation to manage their datastores like Elasticsearch and Cassandra. I also introduced monitoring for visualizing and observing the performance of various stages of the recommendations pipeline.

Technologies Used: AWS, locust, Spring Boot, Kubernetes, Elasticsearch, Cassandra.

TU Dresden Dresden, Germany
Wissenschaftliche Hilfskraft *Mar 2014 - Dec 2014*

As a part of the SREX(Secure Remote Execution) project I developed a translator for C programs which added redundancy to regular x86 instructions to detect and correct transient errors in memory and computation. I also worked with consensus services like ZooKeeper and Consul to evalute their runtime characteristics. I also implemented several new prototype features for a ZooKeeper client library.

Technologies Used: Python, Fabric, Apache ZooKeeper, C/C++, Scons, Consul, Mercurial

DMFS Dresden, Germany
Application Developer *Jan 2013 - March 2014*

My primary role was as a Python backend developer. I developed a web based platform for the bulk retail of mobile apps. The service used OpenSSL to sign packaged apps and verified the source of the app sold through the platform. Also developed the Android SDK which integrates with existing third-party apps to leverage this functionality. This also included the task of building and maintaining the infrasturcture for deploying and running the platform.

Technologies Used: Python, Android, Django, OpenSSL, PostgreSQL, Git

Locus Labs BANGALORE, INDIA

Web and Mobile Developer *Jun 2011 - August 2012*

Locus Labs was an early stage startup for providing location based advertising and services through mobile applications. Being one of the first developers meant I had to manage several resposibilities, from building the backend services, tinkering with the frontend code and also maintaing the deployment pipelines to make releases.

Technologies Used: Django, Python, Android, Tornado, Fabric, Scrapy, Javascript, JQuery, MySQL, MongoDB, Redis, Git

Netbramha Studios BANGALORE, INDIA

Web Developer *Oct 2010 - May 2011*

Netbramha Studios is a design consultancy which develops aesthetic and content intensive websites. I was hired to handle the technical aspects: Maintenance of websites and minor front-end development. I also built websites using both third-party and in-house server frameworks. Used JQuery for front-end development and also did some basic layout and styling with HTML+CSS.

Technologies Used: PHP, CodeIgniter, CakePHP, JQuery, Javascript, Python, Django, SVN, Git

Please consult my LinkedIn Profile for references.

Education

Techniche Universität Dresden DRESDEN, GERMANY

Master of Science, Distributed Systems Engineering *Oct 2012 – Mar 2015*

Completed courses in Security and Cryptography, Software Fault Tolerance and Dependable Systems. Also worked in the Systems Engineering Lab and Software Fault Tolerance Lab. Under the guidance of Prof. Dr. Christof Fetzer completed my Master's Thesis in scaling Zookeeper. The thesis proposed a solution which partitioned the Zookeeper FS namespace to shard the data and increase the throughput by reducing the overhead of the consensus algorithm.

BM Sreenivasaiah College of Engineering, Vivesvararya Technological University BANGALORE, INDIA

Bachelor of Computer Science and Engineering *Jul 2006 – Apr 2010*

Major in Computer Science with a focus on Computer Architecture. Was also an editor of the departmental newsletter and a regular contributor. For my final year project developed a Wi-Fi enabled robot which could be controlled over the Internet.

Skills

Technical Skills: Software design and architecture, Linux internals(particularly containers and networking), databases, strong background with operations. Proficient in Go and Python with some background in Java and C/C++.