

# Arjun Naik *October 29, 1987*

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## Summary

Software engineer with 10+ years of experience in e-commerce and foundational systems. Has a passion for building features and functionality with a focus on reliability, scalability and maintainability. Established record of collaboration on large projects, mentorship of junior and mid-level engineers. Looking for positions in teams building critical systems with high performance, reliability requirements like security, infrastructure.

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## Experience

### Delivery Hero

BERLIN, GERMANY

Staff Software Engineer - Global Developer Platform

*Aug 2022 - Current*

Development and steering of the self-service deployment tooling for users of the platform. Contributions to upstream AWS projects for managing AWS resources through Kubernetes resources. Integration of the in-house authentication/authorization solution into service mesh(Istio). Mentoring of engineers, design of systems in the domain and collaboration with other domains and entities.

**Technologies Used:** Go, Kubernetes, AWS controllers for Kubernetes, Open Application Model.

### Red Hat

BERLIN, GERMANY

Senior Software Engineer OpenShift

*Jun 2021 - Jul 2022*

Development of operators to extend the functionality of the OpenShift Container Platform through CRDs and controllers. 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*

Provided 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 upstream Kubernetes projects so that user workloads can scale both vertically and horizontally. Other 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

Software Engineer SRE

*August 2015 - December 2017*

Part of the SRE team which worked with the feature teams in the migration of a monolithic codebase to microservices in the cloud. During this process of migration assisted teams in automating their deployments, instrumenting their applications for monitoring and performed load test to verify that the newly built services could satisfy the performance and scaling requirements. Later moved to the Personalization department where I worked with the Recommendations team to deliver personalized item recommendations with Service Level Objectives(SLOs). Automating the deployments of the their infrastructure and implemented controllers and tooling to manage their datastores like Elasticsearch and Cassandra. Introduced monitoring for visualizing and observing the performance of various stages of the recommendations pipeline.

**Technologies Used:** Go, Java, 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 developed a translator for C programs which added redundancy to regular x86 instructions to detect and correct transient errors in memory and computation. Also worked with consensus services like ZooKeeper and Consul to evaluate their runtime characteristics. 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

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 infrastructure 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. Had to manage several responsibilities, from building the backend services, tinkering with the frontend code and also maintaining the deployment pipelines to make releases.

**Technologies Used:** Django, Python, Android, Tornado, Fabric, Scrappy, 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. Handled the technical aspects list aaintenance of websites and minor front-end development. 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.*

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## Education

### Technische 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 Fetzter 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.

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## Skills

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