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Summary

A software/devops engineer with a focus on reliability and performance of distributed systems.

In 2010 after completing a Bachelor's degree in Computer Science I started working as a software Developer in a startup. I worked with diverse technologies and built applications for several platforms. But I always enjoyed working on the automation and infrastructure for those applications. In 2012 I decided to continue my education in Germany. Studying at TU Dresden in the Systems Engineer-

ing chair gave me a unique opportunity to participate in several research projects and revisit the fundamentals of Distributed Systems. After graduating in 2015 I decided to build my career as a Site Reliability Engineer. My goal is to work in an environment which fosters creativity and offers interesting challenges. Since I am a big proponent of open-source, I also wish that my work both utilises and contributes back to the opensource community.

Experience

Zalando SE

Software Engineer (AWS and Kubernetes)

Provide Kubernetes clusters and CI/CD integration to feature developments team in Zalando to deploy their applications. Monitoring and upgrading the clusters so that teams can benefit from improved security and reliability. Improving the pod autoscaling controllers in the clusters so that user workloads can scale both vertically and horizontally. Occasional contributions to upstream Kubernetes open source projects.

BERLIN, GERMANY

Aug 2018 - Current

Cubits

Site Reliability Engineer

Cubits is a cryptocurrency payment gateway. I am part of a team which is migrating the existing stack to the cloud in GCP. Existing services are being modified to run in Kubernetes. I am also assisting the feature team in infrastructure for new cryptocurrencies.

BERLIN, GERMANY

Jan 2018 - May 2018

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

Zalando SE

Site Reliability Engineer

Zalando SE is the largest e-commerce retailer in Europe. 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 satisfy the performance and scaling requirements.

BERLIN, GERMANY

August 2015 - December 2017

I was later moved to the Personalization department where I worked with the Recommendations team to deliver personalized item recommendations with strong Service Level Objectives. I continued automating the deployments of 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

Wissenschaftliche Hilfskraft

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.

DRESDEN, GERMANY

Mar 2014 - Dec 2014

I also worked with consensus services like ZooKeeper and Consul to evaluate 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

Application Developer

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 provide this functionality. This also included the task of building and maintaining the infrastructure for deploying and running the platform.

DRESDEN, GERMANY

Jan 2013 - March 2014

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 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. 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

Technische Universität Dresden

DRESDEN, GERMANY

Master of Science, Distributed Systems Engineering

2012 - 2014

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

2006 - 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: Since I come from a Software Development background I have extensive experience with programming in Python. I have also developed and maintained large Java backend services. I have been using Go for some time but consider myself a beginner. For the past of couple of years I have been building infrastructure in AWS. More recently I have started working with Kubernetes and Terraform for deployment of 12-factor apps. I have used several continuous delivery tools like Jenkins, Gitlab-CI and GoCD for building deployment pipelines and other automation tasks.