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"Be the change that you want to see in the world."

Summary.

- · more than Two years of professional experience as a Software Engineer in Java programming, React and DevOps Engineer
- more than 3 months Experience as a Test Automation Engineer at knightec, Solna
- 6 months Experience as a Quality Assurance Engineer at Xensam, Stockholm.
- Microsoft Certification Exam 409 (01/2014) Server Virtualization with Windows Server Hyper-V and System Center

Skills

DevOps AWS, Docker, Jenkins, Ansible, Grafana, Prometheus, VMware, OpenStack, Cloud-init, AWS S3, Kubernetes

Backend JPA/Hibernate, Spring Boot, QueryDsl, JMS, JUnit, Mockito, JMock, PySpark

Big Data analytics Hadoop, Spark, Apache Pulsar, MongoDB

Test Automation Framework Playwright

Authorization framework Open Policy Agent, Keycloack

> Frontend React, Typescript

Programming Java8, JavaScript, Python, C++, C, GIT, Erlang

Languages English, Nepali, Hindi

Achievements

Awarded for Best Technical Solution, Winner of Openhack Stockholm Awarded for hard work and dedication from Fusemachines Nepal, Token of Appreciation Stockholm, Sweden

Kathmandu, Nepal

Work Experience

Brokerway AB Stockholm, Sweden

FULL STACK DEVELOPER

2018

Aug. 2023 - Present

· my worked involved with developing STX product which handles post-trade processes like clearing, settlement, and corporate actions. The backend application involves Java programming and the frontend application involves Angular single-page web application framework.

Ericsson Kista Sweden

THESIS STUDENT

Jan. 2023 - July 2023

- Master Thesis Cloud-Native Authorization
- The thesis investigates the benefit of OPA over a specialized policy engine to existing cloud-native applications named EMC and OMC running in a private cloud.
- It was observed that there was almost small difference in latency i.e 1.109 times slower in latency when service was integrated with OPA as SideCar. But in the case of fine-grained authorization, as data grows, Wasm-based system integration performs well i.e 1.30 times faster than the existing authorization system.
- The thesis project involves Kubernetes, Open Policy agent, and some Java Security and Python Security programming, threat modeling when integrating with OPA with existing service.
- · link to my presentation can be found here

Uppsala University

Uppsala, Sweden Jan. 2023 - Apr 2023

· participation in labs and tutorials/lessons of Hadoop, Spark, and Openstack, grading of assignments, answering student's questions, and supervision of student projects in the Data Engineering course.

Dewire by Knightec Solna, Sweden

SOFTWARE ENGINEER

TEACHING ASSISTANT

Oct. 2022 - present

- · Part time employee
- maintaining React project
- · Test automation of React application using Playwright. The application is a service portal for Boule's hematology analyzer BM-850 and eventually the newer BM-900 model.

Prashanna Rai · Résumé AUGUST 6, 2023

Dewire by Knightec Sundsvall, Sweden

ASSOCIATE ENGINEER Jun. 2022 - Aug. 2022

- · Summer Job
- maintaining Angular project
- · Unit-testing and Integration testing of Spring boot Application. The application is service gateway to integrate Telia numbers to Microsoft teams
- writing Fullstack application to unified view of swagger of microservices

Stockholm, Sweden

REMOTE SOFTWARE CONSULTANT (QUALITY ASSURANCE ENGINEER)

- · Working as QA including writing unit tests, manual testing
- · Spinning up testing environments with HyperV, KVM, Active Directory Domain controller
- Test data management with open source AD-lab generator

Xensam Stockholm, Sweden

QUALITY ASSURANCE ENGINEER AND TESTER

• Designing a test strategy/test plan.

- Test software solutions with Sentry during product development.
- Reporting software defects and work with development team to resolve them.
- Documenting and communicating findings and software quality improvements.

Fusemachines Kathmandu, Nepal

SOFTWARE ENGINEER (DEVOPS ENGINEER)

- Provisioned an easily managable Amazon AWS infrastructure utilizing IaC(Infrastructure as Code) tools like Ansible.
- Built fully automated CI/CD pipelines on Jenkins for containerized applications using Docker.
- Customize Dockerfile of Jupyterhub notebook (Python IDE on cloud) to allow multi-user collaboration.
- Automate deployment of Linux applications and system configurations.
- Collaborating with developers to make sure new environments meet requirements and conform to best practices.
- Deployed a centralized monitoring environment(Grafana, InfluxDB, CollectD) which gather system metrics as well as docker run-time metrics.

Fusemachines Kathmandu, Nepal

SOFTWARE ENGINEER (JAVA DEVELOPER)

Aug. 2016 - Dec. 2017 • Implemented RESTful API server for finding Vehicle compatibility with OBD device.

- · Data import and export to database.
- · Unit and integration tests.
- Reviewing and resolving issues and software bugs.
- · Documentation.

Education

Uppsala University Uppsala, Sweden

MASTER PROGRAMME IN COMPUTER SCIENCE Expected date - June, 2023

Tribhuwan University Kathmandu, Nepal

BACHELOR IN COMPUTER ENGINEERING 2011 - 2015

Hermods Uppsala,Sweden

SWEDISH FOR IMMIGRANTS

Aspiring student

Courses_

- Language Abstractions for Concurrent and Parallel Pro- Low-Level Parallel Programming 1DL550 gramming - 1DL541
- Introduction to Parallel Programming 1DL530
- Functional Programming I 1DL330
- Data Engineering I 1TD069
- Data Engineering II 1TD075
- Algorithms and Data Structures II 1DL231
- Computer-Assisted Image Analysis I -1TD396
- Modelling for Combinatorial Optimisation 1DL451

Mar. 2020 - Jun. 2020

Aug. 2019 - Sep. 2019

Jan. 2018 - Aug. 2018

- Advanced Computer Architecture 1DT024
- Software Testing 1DL610
- · Advanced Computer Science Studies in Sweden - 1DT032
- Algorithms and Data Structures I 1DL210
- Database Design I 1DL301
- Database Design II 1DL400
- Advanced Software Design 1DL242

References can be provided upon request!