

Prashanna Rai

SOFTWARE ENGINEER

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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, Keycloak
Frontend	React, Typescript
Programming	Java8, JavaScript, Python, C++, C, GIT, Erlang
Languages	English, Nepali, Hindi

Achievements

- | | | |
|------|---|-------------------|
| 2018 | Awarded for Best Technical Solution , Winner of Openhack Stockholm | Stockholm, Sweden |
| 2018 | Awarded for hard work and dedication from Fusemachines Nepal , Token of Appreciation | Kathmandu, Nepal |

Work Experience

- | | |
|---|-----------------------|
| Brokerway AB | Stockholm, Sweden |
| FULL STACK DEVELOPER | Aug. 2023 - Present |
| <ul style="list-style-type: none">• 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 |
| <ul style="list-style-type: none">• Master Thesis - Cloud-Native Authorization• The thesis investigated 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 |
| TEACHING ASSISTANT | Jan. 2023 - Apr 2023 |
| <ul style="list-style-type: none">• 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 | Oct. 2022 - present |
| <ul style="list-style-type: none">• 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. | |

Dewire by Knightec

ASSOCIATE ENGINEER

- 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

Sundsvall, Sweden

Jun. 2022 - Aug. 2022

Xensam

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

Stockholm, Sweden

Mar. 2020 - Jun. 2020

Xensam

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.

Stockholm, Sweden

Aug. 2019 - Sep. 2019

Fusemachines

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.

Kathmandu, Nepal

Jan. 2018 - Aug. 2018

Fusemachines

SOFTWARE ENGINEER (JAVA DEVELOPER)

- 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.

Kathmandu, Nepal

Aug. 2016 - Dec. 2017

Education

Uppsala University

MASTER PROGRAMME IN COMPUTER SCIENCE

Uppsala, Sweden

Expected date - June, 2023

Tribhuwan University

BACHELOR IN COMPUTER ENGINEERING

Kathmandu, Nepal

2011 - 2015

Hermods

SWEDISH FOR IMMIGRANTS

Aspiring student

Uppsala, Sweden

Courses

- Language Abstractions for Concurrent and Parallel Programming - 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
- Low-Level Parallel Programming - 1DL550
- 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!