

ROSHAN LAMICHHANE

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EDUCATION

Darmstadt University of Applied Sciences
Exchange Semester, Computer Science

Germany
Summer, 2021

Pokhara University
Bachelor of Computer Engineering

Pokhara
2018 - 2023

WORK EXPERIENCE

Prithak Creation
Software Engineer | Go, Js(Node), Kubernetes, Terraform, Microservices

Kathmandu
April, 2024 - Present

- Contributed to enterprise edition of KubeSlice (a CNCF sandbox project)
- Build REST APIs involving Kubernetes APIs in Node and Go
- Build Kubernetes Operators in Go
- E2Es, Helm Charts, UAT

Grepssr
Associate Delivery Engineer | PHP(crawlers), Go(tools)

Kathmandu
2023 - March, 2024

- Involved in building large-scale crawlers
- Optimized crawlers by 20-30% in terms of time and bandwidth
- Built tools for team to automate tedious tasks

JankariTech
Junior Programmer | PHP(Behat), Javascript(Playwright), Gherkin

Pokhara
2022 - 2023

- End-to-End(E2E) Tests, Smoke Tests, Regression Tests
- API Testing, UI Testing
- Test Automation adopting Behaviour Driven Development

LAPIC UVZ
Backend Developer | Java (Spring Boot), REST API, Docker

Germany (Remote)
April, 2020 - Sept, 2021

- Involved in development of project 'WheelScout', which provides profile-based routing based on OpenStreet maps targeted for wheelchair users.
- Developed a load-balancer for maps routing system that routes request based on geographical data.
- Developed a REST-API wrapper around **GraphHopper**, an open-source rendering library for OpenStreet Maps, that renders custom maps required by the project in a concurrent fashion
- Developed a backend service which stores and manages maps, and it provided interaction through REST-API
- Developed a backend service (Instance Manager) to provide easy deployments and management of routing servers in docker containers via REST-API

SKILLS & INTERESTS

Technologies: Go, Java (Spring Boot), JavaScript (Node, React)
Databases: Postgres, MongoDB
Tools: Kubernetes, GNU/Linux, Git, Postman, Docker
Interests: Backend Development, REST API, Open Source. Concurrency

PROJECTS

The projects are hosted at my GitHub profile.

- **Monkey Lang Go**
A programming language built while learning and reading through books 'Writing An Interpreter In Go' and 'Writing A Compiler In Go'.
- **Marks Management System** Express (Node.js), Prisma, Postgres, Prisma, React, react-chartjs-2
A marks management system targeted for Pokhara University. A complete final year project.

- **Marks Management System - Backend** : A backend web application that provides high performance REST API built with Express (Node.js) using Prisma and Postgres. It uses JWT for security.
- **Marks Management System - Frontend** : An user friendly UI built using React and react-chartjs-2.
- **Student-Portal** *Go, Gin, Postgres, REST API*
A backend service for the student portal system developed as a project for the college. It was built with Go using Gin framework to provide high performance REST API. It provides session based authentication.
- **Khabar-haru** *Go, Web-scraping, Web-server, REST API*
A news aggregator that aggregates news from Nepali news portals and also shows daily fuel prices.
- **Rocketchat-bot** *Go, nodejs*
A rocketchat bot that supports responding to messages, external scripts (node scripts) execution and cron jobs.
- **Choto-bato** *Go, Redis, REST API*
A lightning fast linker shortener implemented in Go with Redis.
- **Vc-mover** *Go*
A file watcher that watches for any file matching certain regex and executes commands on the file, such as, moving, unzipping, deletion and more.
- **OshoDarshan** *Java*
An android application to search and download Osho's discourses easily.