

# Rohit Ratna Sthapit

SOFTWARE ARCHITECT · PYTHON EXPERT

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“The mind is everything. What you think you become”

## Summary

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I am Software Architect having more than 6+ years of experience in SW - R & D. Started my programming journey from C & PHP/WordPress later on, shifted to using Python, Javascript, and GIS-based app development. VIM and Tmux are my go-to tool for development, I used to love ricing up my Arch Linux setup but now I mostly work on Mac. Besides that, I am into embedded software development for custom DIY IoT devices.

## Skills

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<b>Back-end</b>	Django, Express, FastAPI, Laravel, PostgreSQL, MySQL, MongoDB
<b>DevOps</b>	AWS, Docker, Fabric, Jenkins, GitlabCI
<b>Front-end</b>	Redux, React, HTML5, SASS, Gatsby, NEXTjs
<b>Environment</b>	VIM, Linux, Tmux, MacOS
<b>Programming</b>	Javascript, Python, Typescript, PHP, C++
<b>Languages</b>	Nepali, English, Hindi, Newari

## Work Experience

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### Airlift Technology

Kathmandu, Nepal

CO-FOUNDER & SOFTWARE ARCHITECT

Jan. 2018 - Jun. 2020

- Implement Mapbox API /ArcGIS API/ Geoserver vector tiles for web based geo analysis SaaS platform
- Initiative to provide data driven governance service
- Built and deployed overall service infrastructure utilizing Docker container, GitlabCI, and several AWS stack (Including EC2, ECS, S3, RDS, IAM), focusing on high-availability, fault tolerance, and auto-scaling
- Business Plan development, Finance Planing and Pitching the ideas to investor

### Leapfrog Technology Inc

Ktm, Nepal & Seattle, U.S.A

SOFTWARE ENGINEER

Oct. 2016 - Feb. 2017

- Trained new team on revenue tracking engine at Mindtree -Pune
- Lead engineer of the offshore development team. (Client: Revint Solutions - Denver)
- Developing on-boarding / training programs for interns
- Developed data visualization application for HIPPA data for financial auditing (Client: Revint Solutions - Denver)
- Upgrading the reporting engine based on Django /Jquery to RESTful API focusing on its React implementation. (Client: AcuStream -Denver)
- Built CLI data scraping tool to scrap from linkedin / talent agencies for freelancer info gathering
- Deployed a centralized monitoring environment for EC2, ECS instances for multiple project
- PowerBI data custom visualization for project management solution(Client: Microsoft)

### V2oconnect

Kathmandu

SOFTWARE ENGINEER

Jun. 2015 - Jan. 2016

- SaaS platform for the volunteer management based on Django
- Server Administration - Deployment - Feature Development
- Communicating regularly with end user for feedback and feature development

### Sastobazar

Kathmandu

WEB DEVELOPER

Sep. 2013, Mar. 2013 - Oct. 2014

- Auction website based on Wordpress
- SEO/Digital Marketing

## Education

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### Kathmandu Engineering College - Tribhuvan University

Kathmandu, Nepal

B.E. IN COMPUTER ENGINEERING

Mar. 2012 - Aug. 2016

- Financed 50% of my own education through self-employment and random gigs

## Honors & Awards

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2018	<b>Participation</b> , Yantra3 Robotics Competition - RAN	Nepal
2015	<b>Participation</b> , Robocon - IOE Pulchowk	Nepal
2014	<b>Participation</b> , Yantra2 Robotics Competition - RAN	Nepal
2014	<b>Finalist</b> , Wearables Appathon - Microsoft Innovation centre Nepal	Kathmandu
2013	<b>Participation</b> , ChildApp Appathon - Microsoft Innovation center Nepal	Kathmandu

## Projects

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### Local News Aggregator

KHARAYO KHA - [HTTPS://GITHUB.COM/NHUZAA/KHARAYO-KHA-SCRAPER](https://github.com/nhuzaa/kharayo-kha-scraper)

- Scraping Local news using Scrapy and storing it not firebase
- NEXTjs deployment on Netlify as frontend
- URL: [github.com/nhuzaa/kharayo-kha-scraper](https://github.com/nhuzaa/kharayo-kha-scraper)

Ktm, Nepal

Nov. 2020

### Power BI Custom Visualization

POWER BI

- Development and design of scrollable visualization
- Accessibility features for the visualization
- Technology Used:Typescript, D3.js, Lodash

Ktm, Nepal

Mar. 2018

### Multilingual news portal

INFONEPAL

- Development and design of News portal
- Accessibility features for the visualization
- Technology Used:Wordpress

Ktm, Nepal

Mar. 2017

### Disaster recovery bot with computer vision

DRAID

- Remote Disaster Recover Bot - DRAID with object detection capabilities | Raspberry PI | Open CV | Python
- URL: [github.com/nhuzaa/DRAID](https://github.com/nhuzaa/DRAID)

Ktm, Nepal

Jul. 2016

### Robocon-Beatlebot

PRIMARY OBJECTIVE OF THE BOT WAS TO GET THROUGH THE ROUGH TERRAIN OF THE COMPETITION.

- Following the white line. It's a line following bot with image processing capabilities.
- Technology Used:Raspberry Pi, Python 3.5,OpenCV
- URL: [github.com/nhuzaa/pyBeatleBot](https://github.com/nhuzaa/pyBeatleBot)

Ktm, Nepal

Jul. 2015

### JS Photoshop

A LIGHTWEIGHT PHOTO MANIPULATION TOOL USING ES5 WITHOUT USING ANY THIRD PARTY LIBRARIES

- Technologies Used: HTML5, ES5, CSS3
- URL: [github.com/nhuzaa/JSphotoshop](https://github.com/nhuzaa/JSphotoshop)

Ktm, Nepal

Dec. 2016

### A heart rate and oxygen level monitoring system

OXIMETER

- Technologies used: Arduino, Android, PHP, Apache Server
- Developed in Microsoft Wearable Appathon

Ktm, Nepal

Nov. 2014

### Photo Recovery Tool

KECUNDELETE

- C++ based CLI photo recovery tool (JPG and PNG)

Ktm, Nepal

Oct. 2013

## Program Committees

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2014-2016	<b>Director</b> , IT Club	KEC, Kathmandu
2013-2015	<b>Organizer &amp; VP</b> , Electronics Project Club	KEC, Kathmandu
2012-2013	<b>General Member</b> , Sthapit Society - Community Club	Kathmandu
2012-2013	<b>General Member</b> , Udyia Society - Community Club	Kathmandu
Mar 2012	<b>Layout Designer</b> , EPC Magazine	Kathmandu