

# ABINASH KOIRALA

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## EXPERIENCE

### **Senior Software Engineer**

08-2019 to Present

Realtor.com, Morgantown, WV

- Designed and implemented multiple data pipeline micro-services for importing and aggregating event stream data as well as data-feed files from internal as well as external data partners.
- Mentored junior engineers through peer programming and code walk-through sessions.
- Created and maintained reference projects for data pipeline micro-services using lambda functions.
- Created an internal self-service tool for investigating data related issues in reporting products.
- Tech stack: Node.js, Java, Python, AWS, Docker, Jenkins, React, Highcharts

### **Software Engineer**

10-2016 to 08-2019

Realtor.com, Morgantown, WV

- Designed and implemented an end-to-end reporting service including back-end data aggregation jobs and a low latency RESTful API on top of the processed data with support for expressive queries.
- Created multiple customer facing performance reporting UIs using Highcharts and React.
- Created a log forwarding infrastructure for AWS lambdas to enable sending logs to multiple services.
- Tech stack: Node.js, Java, Python, AWS, Docker, Jenkins, React, Highcharts

### **Graduate Teaching Assistant (Part-time)**

08-2015 to 05-2016

Rensselaer Polytechnic Institute, Troy, NY

### **Principal Software Engineer**

12-2013 to 07-2015

Divya Technologies Pvt. Ltd, Kathmandu, Nepal

- Led an agile project team of five software engineers to deliver a web-based accounting app.
- Designed and added a RESTful Web Service layer interfacing with the accounting app back-end.
- Designed and implemented back-end job processing service for 3rd party data ingestion and reporting.
- Maintained and enhanced an internal library of reusable front-end components using Knockout/jQuery.
- Tech stack: Python, Django, PostgreSQL, Knockout.js, Highcharts, Celery, Redis, AWS EC2/S3.

### **Senior Software Engineer**

07-2013 to 12-2013

Divya Technologies Pvt. Ltd, Kathmandu, Nepal

- Designed and implemented the back-end application for a web-based accounting app in Django.
- Designed and implemented the web UI for the accounting app from the ground up.
- Created and maintained an internal library of reusable front-end components using Knockout/jQuery.
- Tech stack: Python, Django, PostgreSQL, Knockout.js, Highcharts, Celery, Redis, AWS EC2/S3.

### **Software Engineer**

02-2012 to 06-2013

Verisk Information Technology, Kathmandu, Nepal

- Designed and implemented a template-based code generation service for reporting tasks.
- Wrote a service to migrate Oracle PL/SQL ETL scripts to Syncsort DMExpress Jobs.
- Tech stack: Java, C, Oracle, Syncsort DMExpress.

## EDUCATION

### *MS in Information Technology*

Rensselaer Polytechnic Institute, Troy, NY

05-2016

### *BE in Computer Engineering*

Tribhuvan University, Kathmandu, Nepal

09-2011

## TECHNOLOGY SKILLS

**Languages:** Java, JavaScript/Node.js, Python, C.

**Web:** React.js, Highcharts.js, Hapi.js, Express.js, Django, D3.js, CSS.

**Platforms and Misc:** Linux stack, AWS, Docker, Jenkins, SQL, NoSQL, and In-memory data stores.