

# ABINASH KOIRALA

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## SUMMARY

I am a full-stack software engineer with project-based experience in different open-source web technologies. Currently, I'm pursuing an MS in IT degree concentrating in Data Science and Analytics. I love to work in small and multifunctional teams.

## EDUCATION

*Master of Science in Information Technology* Expected May 2016  
Rensselaer Polytechnic Institute, Troy, NY

*Bachelor's Degree in Computer Engineering* Sept 2011  
Tribhuvan University, Kathmandu, Nepal

## EXPERIENCE

*Graduate Teaching Assistant* Aug 2015 - Present  
Rensselaer Polytechnic Institute, Troy, NY

- Teaching Assistant for courses on Data Science, Software Development, and Information Systems Security.

*Principal Software Engineer* June 2013 - July 2015  
Acubor Pvt. Ltd, Kathmandu, Nepal

- Architect and lead developer of a web-based bookkeeping and accounting app.
- Designed and implemented MVC components, and modules for: data integration from third party APIs, asynchronous job scheduling, and RESTful API for the accounting app.
- Technology stack: Python, Django, PostgreSQL, Knockout.js, Celery, Redis, Openshift.

*Software Engineer* Feb 2012 - June 2013  
Verisk Information Technology, Kathmandu, Nepal

- R&D Engineer for Healthcare Data Analytics Application.
- Migrated ETL jobs of enterprise business flow from ORACLE to SYNC SORT DME Express.
- Technology stack: Java, C, EJB, Apache Velocity, JMS, Camunda BPM, Oracle, DME Express.

## ACADEMIC PROJECTS

- Host Based Intrusion Detection System using Markovian Models and Self Organizing Maps.
- Text clustering using Locality Sensitive Hashing.
- Social Media Polling MVP using MERN stack.
- Finding correlation between Lunar Cycles and Seismic activities using time-series analysis.
- Salesforce analytics MVP using REST API, iPython Notebooks and a Node-Mongo web app.
- Large scale social graph partitioning in Apache Giraph using Locality Sensitive Hashing.

## TECHNOLOGY SKILLS

**Languages:** Python, Java, JavaScript, C, C++, R.

**Web Back/Front-end:** Django, EJB, JMS, NodeJS, KnockoutJS, ReactJS, Postgres, Oracle, MongoDB, Celery, Redis.

**Data Analytics:** R-packages, Pandas, Scikit-learn, Apache Spark, Hadoop, Yarn, Giraph, Tableau, D3, Plotly.

**Software Engineering:** Agile, Scrum, Jira, Git, SVM.