

AMIT JOSHI

Python, Go-Language, Blockchain, Docker,
Microservices, Linux Servers

Sr. Research Engineer
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Skills:

Language	Python, Go-Language, Kotlin, Solidity, Shell, Ruby, R, JS
DevOps	Docker, Microservices, Homebrew, Certificates, SSH, Nginx, Linux Administration, CloudFlare, Heroku, DigitalOcean, Envoy Reverse Proxy, Lets Encrypt
Database	Google Datastore, SQLite, PostgreSQL, MySQL, Gauva Cache
Data Science	Pandas, Numpy, matplotlib, scikitlearn, nltk, Classifiers, NLP
Frameworks/ Platforms	Flask WebFramework, NodeJS, Spark WebFramework, SQLAlchemy, Sinatra WebFramework, Watson API, Ethereum, BitCoin Network
Tools	ElasticSearch, Apache Solr, Unix, Mac, Git

Professional Experience

Smart Ideas Pvt. Ltd. (HamroPatro)

Jul. 2018 – Present	Sr. Research Engineer <ul style="list-style-type: none">• Research in new and old technology that could be used for development of different products.• Hamro Stack: Deployment system with service discovery in Go, docker and reverse proxy focused on microservices, low downtime, multiple version support, wildcard domain assign and log viewer.• City Coin: A POC for Ethereum based ERC721 and ERC20 cryptocurrency• Hamro Quiz: Backend REST API in Kotlin for creating, participating and selecting winner in a quiz.• News Search: News search backend with ElasticSearch.• Smart Reward: A blockchain based reward system developed in Solidity.• Certificate Store: Using Ethereum network as database for storing and verifying certificates provided by authorized body.• Server Monitoring and Maintenance: Maintain remote Linux servers, make sure services is running, update server certificates, ensure smooth running of all servers (backup server, reverse proxy, double proxy). Also maintain multiple domains, loadbalancer, and DNS in CloudFlare.• Server Performance Monitoring: A system of Prometheus and Grafana for system performance metric provider, where admin can view microservices' status and all server request/response related data.• NSFW Filtering: Research on NSFW identifier systems and feasibility of creating in-house. Implement yahoo's NSFW as a result.• Timestamp Bit: Data integrity validation using opentimestamp and Bitcoin network transaction history.
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- **Blockchain:** Research different cryptocurrencies & blockchain technologies. Identify usability of programmable blockchain and own blockchain development with HyperLedger Project. Develop Proof-Of-Concept for Ethereum as datastore.

Technologies & Tools: Go-Language, ElasticSearch, Kotlin, Blockchain, Solidity, Ethereum, Bitcoin, Docker, Docker Swarm, CloudFlare, Linux servers, Lets' Encrypt, Google Datastore, Reverse/Front Proxy, BitBucker (Git).

Jul. 2017 – **Research Engineer**
Jun. 2018

Javra Software Pvt. Ltd.

Feb. 2017 – **Software Engineer**

Jun. 2017

- **PF Concept:** Support and feature development in an on-going eCommerce website

- **Product Search:** Develop search engine for PF Concept, the search response could be exact product, matching product or matching words. Also support for fuzzy search in different English and non-English languages.

Technologies: OpenEdge 4GL, Apache Solr, Kendo UI.

May 2016 – **Jr. Software Engineer**
Jan. 2017

CloudFactory (Sprout Technologies and Services)

May 2015 – **Software Developer Intern**

Aug. 2015 **Technologies:** Ruby, Ruby-on-Rails, R-language

Education

2011 - 2015 **Bachelor of Engineering, Computer**
Kathmandu University, Dhulikhel

Other Projects

Opinio: Sentiment Analysis of text using a combination of SentiWordNet, Bayesian Classifier and NLTK.

CommPrice: Future price prediction of commodity items with regression model.

VisualPrice: Model OHLCV data and create multiple decision-making graphs.

DataScrape: Data scraping project from different sites & social networks

TAHelper: Technical Analysis of OHLCV data and generate metrics to identify behavior of change in data over time using TA-Lib and pandas.

TextMan: Text manipulation project to apply different NLP functions like TFIDF, readability score, topic model, cleansing, etc... to a text using textacy.

NCGPy: Port existing Nepali Computational Grammar to python and improve on it.

xChatBot: Simple chatbot, use of AlchemyAPI (now WatsonAPI) to identify text context

Informal Courses

Blockchain: IBM Blockchain Essentials by **IBM**

Docker: Docker Essentials: Extend Your Apps With Containers by IBM

Cryptography and Network Security conducted by Prof. Partha visiting from Indian Institute of Science to Kathmandu University.

Python: Getting Started with Python, Python Data Structures by **University of Michigan**, Coursera

Data Science: R Programming, The Data Scientist's Toolbox, Getting and Cleaning Data by **Johns Hopkins University**, Coursera