

# Dongsam Byun [변동삼]

Blockchain Engineer / Blockchain Technical Advisor

Ethereum / Solidity / Smart Contract / DApp / Tendermint / Cosmos / Python Backend / Machine Learning

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## Experience

2018–

### B-Harvest, CTO

- Building, managing and optimizing for Cosmos validator(DPoS) node system, Reliability Engineering
- Contributing Gaiad (cosmos-sdk) open source and Customizing for analysis, validation
- Ranked Top Tier in Cosmos Game of Stakes (moniker: bharvest)
- Development and Consulting of Blockchain using Cosmos-SDK and Tendermint
- Developing sentiment analysis system for crypto assets
- Designing Tokenized Fund using Smart Contracts

Cosmos

Tendermint

Elasticsearch

Kibana

Logstash

Prometheus

Ethereum

Solidity

Ansible

AWS(EC2, VPC, DX)

YubiHSM2

Go

2018

### The Language Network, Lead Blockchain Engineer

- Developed Smart Contract, Dapp for publish ERC20 Token and ICO
- Implemented Blockchain Backend Server using Geth and web3.py
- Built Ethereum Blockchain Network as a sidechain and Ledger

Ethereum

Geth

Web3.py

Web3.js

Solidity

IPFS

Truffle

Python

Flask

AWS

Oracize

2017–

### Self-employed, Freelancer Blockchain Engineer, Advisor, Lecturer, Author

- Advise for ICO and Blockchain Projects
- Blockchain Advisory Board Member, IIB Council 🐼
- Advisory Board Member for Blockchain Tech [sidechain, smart contract], Storichain 🐼
- Lecture on Ethereum and Solidity Programming Course, Fast campus 🐼
- Auditing Smart Contracts (Solidity)

2016–17

### WantedLab, Machine Learning, Software Engineer (Matching Cell)

- 원티드 (wanted.co.kr) Data Analysis, Machine Learning, Backend, REST API Development
- Implemented morphological analysis and extract keyword of Resume, Job Description text ( NLP, TF-IDF, Word2vec )
- Developed matching model and scoring system for between user and job ( Collaborative Filtering )
- Optimized feature for matching model using DNN, Tensorflow
- Developed auto Crawling system for company news with noise filtering

Python

Flask

AWS(EC2, ELB, RDS, CF, S3,

Lambda)

Redis

Jupyter

gensim

KoNLPy

Numpy

TensorFlow

scikit-learn

Celery

SQLAlchemy

Mysql

Elasticsearch

2016

### Cheoum, Lead Developer

#### CUfund Backend, Full Stack of P2P, P2B Crowd Funding Platform

- Developed whole web service of P2P Loan Platform
- Implemented Credit rating inquiry, identity verification, virtual account integration system
- Built infrastructure and DevOps using AWS

Python

Django

AWS (EB, RDS, Lambda,

SQS, CF, S3)

Git

Slack

Trello

PostgreSQL

2015-16

**DAYLI Financial Group(Nomad Connection),** Researcher(DataLabs)

-Developed Log Collecting and analysis system for web page

-Did research and analyze news text for stock investment ( Word2Vec, Doc2Vec )

Python

Flask

AWS(EB, Lambda, SQS, S3)

Javascript

Spark

Zeppelin

Gensim

Vagrant

Git

KoNLPy

MongoDB

RESTful

2014-15

**Self-employed,** Freelancer

**Web, Data Crawler Development**

Facebook Page posts,  
comments

Amazon

products, reviews

Instagram Posts, tags

Google Image

Naver News

Naver Finance

Daum Cafe Posts

Election candidate data

ETC Apps, Shops ...

**Automation**

-Browser Automation for SEO [ Python, Selenium ]

-Business Automation for law firm [ Python, Flask ]

-Instagram Image Upload Automation [ Python ]

-Facebook Page Posting Automation [ Python, GraphAPI ]

## Education

2015-18

**Korea University,** M.S. in Computer Science and Engineering

'Expected in 2019

Text mining for bigdata  
Bigdata planning and  
analysis

Advanced information  
retrieval  
Social network security

Research in system  
security  
Venture capital  
investments

2011-15

**Dongguk University,** B.S. in Computer Science and Engineering

Pizza Sales Prediction by Using Big Data Analysis / KIPS 2014 Fall Conference VOL 21 NO. 02 PP. 0890 ~ 0893 (2014. 11)

AI Lab (RA, TA)

## Contributions

ethereum/pyethereum

ethereum/solidity

raiden-network/raiden

dongsam/logdig

ethereum/web3.py

tensorflow/tensorflow

dongsam/ko2vec

bitcoin/bitcoin

LanguageNetwork

solidity-korea

OpenMined

BurrowCoin

omisego/plasma-mvp

cosmos/cosmos-sdk

## Projects

2018

**DAIPO: Decentralized Autonomous Initial Public(Person) Offering**

2018

**BurrowCoin: Ethereum Deposit System with Token Economy**

2017

**Coin-Trends: Cryptocurrency Analysis Using Text Mining and Machine Learning**

Quantitative Analysis, Text Mining, Open Source Analysis, Machine Learning Approach

Sentiment Analysis about Chatting data using doc2vec

2015

**Logdig: Web/App Big Log Analysis Framework**










A framework that allows users to generate, collect, analyze, and visualize click, move, and exit logs generated by Web / App services

Flask RESTful Server, Spark, Zeppelin Dashboard

2014

**Sales forecast system through big data analysis**

Forecasts future sales volume by analyzing 10-year sales data on POS, online, and phone order share in the food service industry and external variables such as weather, news, weblog, and marketing information

	Data ETL using Python, Pandas and Machine Learning with Weka, Jython
2013	<b>System Trading by New Opinion Mining</b>   Signal generation through real-time news crawling and positive, negative opinion mining Proeject Manager, Python, XingAPI(Etrade)
2012	<b>Secure payment system based on QRcode scan</b>   Make payment by QRcode scan with sales information, By encrypting the user authentication and credit information required for payment and storing it on a personal smartphone rather than on a server Proeject Manager, Payment, Verification Server QRcode Manage Server, POS, Web/App Client
2012-14	<b>ETC</b> Ubiquitous smart home control system through voice recognition and web-based application   Lecture assistant software with hand motion motion sensor LeapMotion  Alarm and action execution system by proximity approach detection  Manufacture of embedded security equipment using Raspberry-Pie 


## Activities

2018	Technical Mentoring, Judging for Blockathon ( Blockchain Hackathon ), Fastcampus 
2015	Korea University CCS Lab(Computer & Communication Security Laboratory) Full-Time
2014-16	public-private joint investigation team for cyber security, [ Korea Ministry of Science and ICT ]
2014	Dongguk University AI Lab TA, RA
2013-14	<b>Software Maestro</b> 4th Step 2, Top 50 [ Korea Ministry of Science and ICT, NIPA ]
2012-13	<b>BEST OF THE BEST</b> 1st Step3, Top 20 finalists, Cyber Security Elite Training program [ Korea Ministry of Science and ICT, Kitri ]
2011-12	Microsoft Student Partner 5th [ Microsoft Korea ]

## Presentations

2018	Trends and View about Blockchain Development, Web World Contents Service Conference 2018 
2017	Consensus Algorithm of Ethereum and Mining Flow, Korea Ethereum Research Group, Google Campus Seoul 
2017	Ethereum A to Z, BlockChain Business Research Group 
2017	Machine Learning Engineer Meetup, WANTED x wework 
2015	Whitebox Testing, 2015 monsterz seminar, Hanyang Univ. 
2014	Sales Prediction System by Using Big Data Analysis, Hanium expo 2014, COEX 
2014	Drone-based tour and control systems with Cisco CMX technology, CISCO IoE Codefest, Song-do 
2013	Secure payment system based on QR code scan, COEX 

## Trainings

2014	Training and exploration at Silicon Valley, Google, MS, Stanford, HP etc.
2013-14	Software Maestro summer, winter education and training
2012	Cyber Security Elite Training program BoB education and training 

## Prizes

2014	Computer Engineering General Design Project, Grand Prize [Dongguk Univ.]
2013	Software engineering project, Grand Prize [Dongguk Univ.]
2013	2nd TOPCIT competition, Special prize [Korea Ministry of Science and ICT, NIPA]
2013	APT attack simulation competition for enterprise security experts, 3rd place [Symantec]
2011	Technical report writing and presentation contest, Grand Prize[1st] [Dongguk Univ.]
2010	Open source software introduction essay contest, 2nd place [redhat Korea]

## Patents

2014	AUTOMATIC SALES FORECASTING SYSTEM BASED ON DATA CRAWLING AND MANAGER'S INPUT (Publication, 1020140157122)
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- 2013 SYSTEM AND A METHOD FOR TRADING STOCKS AUTOMATICALLY BASED ON OPINION MINING ([Publication, 1020130142019](#))
- 2013 THE SECURITY ONLINE PAYMENT SYSTEM AND THOSE METHODS BASED ON TWO DIMENSIONS CODE SCANNING WITH A DEVICE CONTAINING ENCRYPTED PAYMENT AUTHENTICATION INFORMATION ([Publication, 1020130001343](#))
- 2012 SECURITY PAYMENT SYSTEM BASED ON A CODE SCAN THROUGH A TERMINAL STORING ENCODED AUTHENTICATION INFORMATION AND A METHOD THEREOF FOR SAFELY PERFORMING AUTHENTICATION AND PAYMENT ([Publication, 1020120062929](#))

## Certifications

- 2014 Engineer Information Processing (Human Resources Development Service Of Korea)
- 2010 LPIC (LPI)
- 2010 CCNA (CISCO)
- 2009 Certificate of Hacking Security Expert (National Association of Hacking & Security)

## Links

✉ [dongsamb@gmail.com](mailto:dongsamb@gmail.com)

📘 Facebook

🐙 Github

🐦 [@dongsamb](#)

in LinkedIn

📺 Youtube

📄 CV

🌟 Steem