

Dongsam Byun [변동삼]

Blockchain Engineer / Blockchain Technical Advisor

Cosmos / Tendermint / Ethereum / Solidity / Smart Contract / DApp / Go, Python Backend

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Experience

2018-

B-Harvest, CTO

- Contributing Cosmos-SDK, Tendermint open source and Customizing for analysis, validation
- Development and Consulting, Auditing of Blockchains Based on Cosmos-SDK and Tendermint (Kava, Terra, etc.)
- Developing tendermint Liquidity Module of the Cosmos-SDK, which serves AMM(Automated Market Makers)
- Building, managing and optimizing for Cosmos validator(DPoS) node system, Reliability Engineering
- Cosmos, Terra, IRIS, Kava, Comdex, Solana, Polkadot, IDEX, etc Validator (moniker: B-Harvest)
- Ranked Top Tier in Cosmos Game of Stakes (moniker: bharvest)
- Designing Tokenized Fund using Smart Contracts

Cosmos-SDK

Tendermint

ELK

Prometheus

Ethereum

Solidity

Ansible

AWS(EC2, VPC, DX)

Golang

Rust

Python

2018

The Language Network(Atlas Labs), 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

Oraclize

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

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 ☞

cosmos/cosmos-sdk ☞

tendermint/tendermint ☞

tendermint/liquidity ☞

ethereum/pyethereum ☞

ethereum/solidity ☞

ethereum/web3.py ☞

tensorflow/tensorflow ☞

bitcoin/bitcoin ☞

LanguageNetwork ☞

solidity-korea ☞

OpenMined ☞

omisego/plasma-mvp ☞

Projects

2020

Liquidity: Tendermint AMM Liquidity Module of Cosmos-SDK ☞ ☞

2019










Four-Pillars-Project: better validator operation of Tendermint/Cosmos-SDK ☞

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, Zepplien 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	System Trading by New Opinion Mining   Signal generation through real-time news crawling and positive, negative opinion mining Project Manager, Python, XingAPI(Etrade)
2012	Secure payment system based on QRcode scan   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 Project Manager, Payment, Verification Server QRcode Manage Server, POS, Web/App Client
2012-14	ETC Ubiquitous smart home control system through voice recognition and web-based application   Lecture assistant software with hand motion sensor LeapMotion   Alarm and action execution system by proximity approach detection   Manufacture of embedded security equipment using Raspberry-Pie  

Activities


2020	Cosmos Community Contributor Grants 
2019	Cosmos Berlin Hackatom 2019, Honorable Mention, dDex: decentralized Delegation Exchange 
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	Software Maestro 4th Step 2, Top 50 [Korea Ministry of Science and ICT, NIPA]
2012-13	BEST OF THE BEST 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

2019	Database, Statistics, and Data Mining in dPoS Blockchain, Cosmos Seoul Hackatom 2019 
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, Songdo 
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)
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
 Facebook
 Github

 @dongsamb
 LinkedIn
 Youtube

 CV
 Steem