


Dongsam Byun [변동삼]

Blockchain Engineer


Cosmos-SDK / Tendermint / Ethereum / Go

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Experience

2021~

Tendermint

- Tendermint has acquired B-Harvest 
- Developing Gravity-DEX, Liquidity Module on Cosmos Hub

Cosmos-SDK

Tendermint

Golang

2018~

B-Harvest, CTO

- Developing tendermint Liquidity Module of the Cosmos-SDK, which serves AMM(Automated Market Makers) on Cosmos Hub (Gravity-DEX)
- 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.)
- Building, managing, and optimizing for Cosmos validator(DPoS) node system, Reliability Engineering
- Cosmos, Terra, IRIS, Kava, Chainlink, Secret Network, Band Protocol, etc Validator (moniker: B-Harvest)
- Ranked Top Tier in Cosmos Game of Stakes (moniker: bharvest)
- Reporting critical security vulnerability (Gaia, Cosmos-SDK, Cosmos-Hub)
- Designing Tokenized Fund using Smart Contracts

Cosmos-SDK
Tendermint

Ethereum
Solidity

AWS(EC2, VPC, DX)
Golang

2018

The Language Network(Atlas Labs), Lead Blockchain Engineer

- Developed Smart Contract, Dapp for publishing 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
Solidity

IPFS
Oraclize

2017~

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

- Advice 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

Flask
AWS
Redis

gensim
TensorFlow
scikit-learn

Celery
SQLAlchemy
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

Django

AWS

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)

Flask

Spark

Gensim

AWS

Zeppelin

MongoDB


2014-15

Self-employed, Freelancer

Web, Data Crawler Development

Facebook Page posts,
comments

Instagram Posts, tags
Google Image

Naver Finance 
Election candidate data
ETC Apps, Shops ...

Amazon products, reviews

Naver News

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

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 foodservice 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


Activities

2021	Reporting critical security vulnerability (Gaia, Cosmos-SDK, Cosmos-Hub) 
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 cybersecurity, [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, Song-do 
2013	Secure payment system based on QR code scan, COEX 

Training

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]

Publications, Patents

2021	Proposal for Cosmos based Automated Market Maker, Liquidity Module
2014	Pizza Sales Prediction by Using Big Data Analysis / KIPS 2014 Fall Conference VOL 21 NO. 02 PP. 0890 ~ 0893 (2014. 11)

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

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✉ dongsam.byun@tendermint.com
🐙 Github

in LinkedIn
📄 CV