Dongsam Byun [변동삼] 📧 📁

Blockchain Engineer

Cosmos-SDK / Tendermint / Ethereum / Solidity / Smart Contract / Go, Python Backend

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Experience

2018- **B-Harvest**, CTO

- -Developing tendermint Liquidity Module of the Cosmos-SDK, which serves AMM(Automated Market Makers) on Cosmos Hub
- -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 Protocoal, 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 Ethereum AWS(EC2, VPC, DX)

Tendermint Solidity Golang

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

EthereumSolidityFlaskGethIPFSAWSWeb3.pyTruffleOraclize

Web3.js Python

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 Jupyter scikit-learn
Flask gensim Celery
AWS(EC2, ELB, RDS, CF, S3, KoNLPy SQLAlchemy
Lambda) Numpy Mysql
Redis TensorFlow 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 AWS (EB, RDS, Lambda, Slack Django SQS, CF, S3) Trello Git 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)

PythonSparkGitFlaskZeppelinKoNLPyAWS(EB, Lambda, SQS, S3)GensimMongoDBJavascriptVagrantRESTful

2014–15 **Self-employed**, Freelancer

Web, Data Crawler Development

Facebook Page posts, Google Image Election candidate data comments Naver News ETC Apps, Shops ...

Amazone products,reviews Naver Finance ?

Daum Cafe Posts

Automation

Instagram Posts, tags

- -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 Advanced information Research in system
Bigdata planning and retrieval security
analysis Social network 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)

Al Lab (RA, TA)

Contributions O

cosmos/cosmos-sdk \(\text{O} \)ethereum/solidity \(\text{O} \)LanguageNetwork \(\text{O} \)tendermint/tendermint \(\text{O} \)ethereum/web3.py \(\text{O} \)solidity-korea \(\text{O} \)tendermint/liquidity \(\text{O} \)tensorflow/tensorflow \(\text{O} \)OpenMined \(\text{O} \)ethereum/pyethereum \(\text{O} \)bitcoin/bitcoin \(\text{O} \)omisego/plasma-mvp \(\text{O} \)

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 Aanlysis, Text Mining, Open Source Analysis, Machine Learning Approach \S Sentimet Aanlysis about Chatting data using doc2vec \P

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

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 Proeject Manager, Python, XingAPI(Etrade)

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

Proeject 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 $\crewith{\$}$

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

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 ${}^{oldsymbol{\lozenge}}$
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

Database, Statistics, and Data Mining in dPoS Blockchain, Cosmos Seoul Hackatom 2019 🗞
Trends and View about Blockchain Develpment, Web World Contents Service Conference
2018 %
Consensus Algorithm of Ethereum and Mining Flow, Korea Ethereum Research Group,
Google Campus Seoul%
Ethereum A to Z, BlockChain Business Research Group %
Machine Learning Engineer Meetup, WANTED x wework %
Whitebox Testing, 2015 monsterz seminar, Hanyang Univ. %
Sales Prediction System by Using Big Data Analysis, Hanium expo 2014, COEX 🛗
Drone-based tour and control systems with Cisco CMX technology, CISCO IoE Codefest, Song-
do 🛗
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

Engineer Information Processing (Human Resources Development Service Of Korea) 2014

2010 LPIC (LPI)

CCNA (CISCO) 2010

Certificate of Hacking Security Expert (National Association of Hacking & Security) 2009

Links

✓ dongsamb@gmail.com

f Facebook **O** Github

in Linkedin Mary Youtube

CV % Steem