Dongsam Byun [변동삼] 🇰🇷 🇺🇸

Blockchain Engineer / Blockchain Technical Advisor

Cosmos / Tendermint / Ethereum / Solidity / Smart Contract / DApp / 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
-Cosmos, Terra, IRIS, Kava, Comdex, Solana, Polkadot, IDEX, etc Validator (moniker: B-Harvest)
-Contributing Cosmos-SDK, Tendermint open source and Customizing for analysis, validation
-Development and Consulting, Auditing of Blockchains Based on Cosmos-SDK and Tendermint
-Cosmos Berlin Hackatom 2019, Honorable Mention, dDex: decentralized Delegation Exchange
-Cosmos Seoul Hackatom 2019, Speaker, Database, Statistics, and Data Mining in dPoS Blockchain
-Ranked Top Tier in Cosmos Game of Stakes (moniker: bharvest)
-Designing Tokenized Fund using Smart Contracts

Cosmos	Ethereum	YubiHSM2
Tendermint	Solidity	Golang
ELK	Ansible	Rust
Prometheus	AWS(EC2, VPC, DX)	Python

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	Solidity	Flask
Geth	IPFS	AWS
Web3.py	Truffle	Oraclize
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, Lambda)	KoNLPy	SQLAlchemy
	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)

Python	Spark	KoNLPy
Flask	Zeppelin	MongoDB
AWS(EB, Lambda, SQS, S3)	Gensim	RESTful
	Vagrant	
Javascript	Git	

2014–15 **Self-employed**, Freelancer
Web, Data Crawler Development

Facebook Page posts, comments	Google Image	Election candidate data
Amazone products,reviews	Naver News	ETC Apps, Shops …
Instagram Posts, tags	Naver Finance ⏻	
	Daum Cafe Posts	

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 2020

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)
AI Lab (RA, TA)

Contributions ⏻

ethereum/pyethereum ⏻	tensorflow/tensorflow ⏻	OpenMined ⏻
ethereum/solidity ⏻	dongsam/ko2vec ⏻	BurrowCoin ⏻
raiden-network/raiden ⏻	bitcoin/bitcoin ⏻	omisego/plasma-mvp ⏻
dongsam/logdig ⏻	LanguageNetwork ⏻	cosmos/cosmos-sdk ⏻
ethereum/web3.py ⏻	solidity-korea ⏻	

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 Aanlysis, Text Mining, Open Source Analysis, Machine Learning Approach %
Sentimet Aanlysis 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
Proeject 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
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 📺 %
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 **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

2018 Trends and View about Blockchain Develpment, 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)

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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f Facebook in Linkedin ⚙ Steem

 Github ▶ Youtube