# 변동삼 [Dongsam Byun] 🝱 📁

Blockchain Engineer with Machine Learning and Python Backend interested in text and finance data

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## Experience

2017- Self-employed, Freelancer Blockchain Engineer, Lecturer, Consultant, Researcher

- -Built Ethereum Private Blockchain Network and Ledger
- -Implemented Blockchain Backend Server using Geth and web3.py
- -Developing Smart Contract, Dapp for publish ERC20 Token and ICO
- -Lecture on Ethereum and Solidity Programming Course, Fast campus %

Ethereumweb3.pyPythonBitcoinweb3.jsFlaskGethSolidityAWS

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 PostgreSOL

## 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, Instagram Posts, tags Comments Google Image Election candidate data Amazone Naver News ETC Apps, Shops ...

products,reviews Naver Finance ?

## **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 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)

dongsam/logdig (7)

#### Contributions ()

ethereum/pyethereum  $\bullet$  ethereum/web3.py  $\bullet$  bitcoin/bitcoin  $\bullet$  raiden-network/raiden  $\bullet$  tensorflow/tensorflow  $\bullet$ 

dongsam/ko2vec 🖸

#### **Projects**

Coin-Trends: CryptoCurrency Analysis Using Text Mining and Machine Learning Q

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

Sentimet Aanlysis about Chatting data using doc2vec •

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  $\ensuremath{\text{\fontfamily particles}}$ 

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**

Technical Mentoring, Judging for Blockathon (Blockchain Hackathon), Fastcampus & Korea University CCS Lab(Computer & Communication Security Laboratory) Full-Time public-private joint investigation team for cyber security, [Korea Ministry of Science and ICT]

2014 Dongguk University Al Lab TA, RA

2013–14 **Software Maestro** 4th Step 2, Top 50 [ Korea Ministry of Science and ICT, NIPA ]

Korea Ministry of Science and ICT, Kitri ] Microsoft Student Partner 5th [ Microsoft Korea ] 2011-12 Presentations 2017 Consensus Algorithm of Ethereum and Mining Flow, Korea Ethereum Research Group, Google Campus Seoul% 2017 Ethereum A to Z, BlockChain Business Research Group % Machine Learning Engineer Meetup, WANTED x wework % 2017 Whitebox Testing, 2015 monsterz seminar, Hanyang Univ. % 2015 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 Secure payment system based on QR code scan, COEX 2013 **Trainings** Training and exploration at Silicon Valley, Google, MS, Stanford, HP etc. 2014 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.] 2nd TOPCIT competition, Special prize [Korea Ministry of Science and ICT, NIPA] 2013 2013 APT attack simulation competition for enterprise security experts, 3rd place [Symantec] Technical report writing and presentation contest, Grand Prize[1st] [Dongguk Univ.] 2011 Open source software introduction essay contest, 2nd place [redhat Korea] 2010 **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) THE SECURITY ONLINE PAYMENT SYSTEM AND THOSE METHODS BASED ON TWO 2013 DIMENSIONS CODE SCANNING WITH A DEVICE CONTAINING ENCRYPTED PAYMENT AUTHENTICATION INFORMATION (Publication, 1020130001343) SECURITY PAYMENT SYSTEM BASED ON A CODE SCAN THROUGH A TERMINAL STORING 2012 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) CCNA (CISCO) 2010 2009 Certificate of Hacking Security Expert (National Association of Hacking & Security) Links ✓ dongsamb@gmail.com CV **f** Facebook in Linkedin % Steem

3 Youtube

**O** Github

**BEST OF THE BEST** 1st Step3, Top 20 finalists, Cyber Security Elite Training program [