# Gyeoul **Jung**

PYTHON DEVELOPER

*Seoul, Republic of Korea*

(+82) 10-7504-3262  |  ✉ wintermy201@gmail.com  |  ⌂ winterj.me  |  ◻ JungWinter  |  ▯ jungwinter

## **Wor**k Experience

### Atlas Guide
*Seoul, S.Korea*

SOFTWARE ENGINEER
*Mar. 2018 - Jul. 2018*

- Implement RESTful API servers using python for maintaining LangNet.
- Contribute to LangNet whitepaper.
- Build the central api server using flask, postgresql, sentry, AWS RDS.
- Make LangNet telegram bot which handle user voices and provide LANG tokens using rq, websocket.
- Build the backend for frontend server with JWT and Keycloak as SSO solution.
- Build the async websocket server which handle user voice and anlayze result using asyncio, aiohttp.
- Configure a test environment using docker compose.

## **Per**sonal Project

### Chef hong - Kakaotalk chatbot
*Github*

CHEF OF HONGIK UNIVERSITY
*Aug. 2016 - Present*

- Provide menu of student restaurant using kakaotalk plusfriend api using Python + Flask + PyQuery.
- 5,000 RU, 400 MAU, 20,000 api call/month
- Test with pytest + tox + pylint in Travis CI with Codecov.
- Deployed with Gunicorn + Caddy in personal ubuntu server.
- Gather logs and analyze user activity using Elasticsearch + Logstash + Kibana from docker-compose.

### Chatterbox.py
*Github*

PYTHON LIBRARY FOR KAKAOTALK CHATBOT
*Jan. 2018 - May. 2018*

- Provide helpful toolbox to make kakaotalk plusfriend bot.
- Use wrapper to build a response and support to combine each others easily.
- Test with pytest + tox + pylint in Travis CI and Appveyor with Codecov

### File on blockchain
*Github*

STORE FILE'S HASH ON THE ETHEREUM BLOCKCHAIN AND VERIFY IT'S ORIGINAL
*Nov. 2017 - Mar. 2018*

- Provide original proof service using Ethereum blockchain + Python as PoC.
- Use Flask to interact with user who upload the original document and verify a original of document.
- Use Web3.py + Solidity to store hash of document into the Ethereum blockchain and call the contract function in webserver.

## **Ope**nsource Contribution

| | | |
|---|---|---|
| Feature | **halo**, Implement Halo in jupyter notebook | *May. 2018* |
| Bug Fix | **requests-html**, Fix the bug about decoding html with CJK | *Mar. 2018* |
| Feature | **Interview Question for Beginner**, Add python interview questions and answers | *Mar. 2018* |
| Translate | **wttr.in**, Add full Korean translation | *Apr. 2017* |
| Translate | **pyphoon**, Add Korean translation | *Apr. 2017* |
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## **Skill**

| | | |
|---|---|---|
| Backend | **Python**, flask, restful api server, testing, model design | |
| | **Database**, postgresql, redis | |
| | **Blockchain**, solidity, web3.py | |
| Etc | **Devops**, sentry, CI, docker compose, ELK, AWS | |
| Bot | **Telegram, Kakaotalk, Slack**, using python | |
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# Presentation

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|---|---|---|
| Oct. 2017 | **Urban Engineering and Python** ,  Speaker of python & data topic in pycon bimonthly seminar | *Seoul, S.Korea* |
| Jun. 2017 | **Optimize target distribution center** ,  Analyze using python + jupyter + matplotlib + sklearn | *Hongik Univ* |
| Dec. 2016 | **Location analysis for the expansion of kindergarten** ,  Use python + QGIS | *Hongik Univ* |

# Writing

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|---|---|---|
| Feb. 2018 | **Mechanism of python GC**,  Detail of python gc | *Blog* |
| Dec. 2017 | **Post mortem of file on blockchain**,  How I developed the file on blockchain service | *Blog* |

# Education

**Hongik University**
*Seoul, S.Korea*

B.E. in Urban Engineering
*Mar. 2014 - PRESENT*

- Learn about GIS, Big Data Analysis, Urban Planning
- Research Assistant in Prof. Jae Seung Lee lab

**Korea Digital Media High School**
*Ansan, S.Korea*

Graduate in Hacking Defense
*Mar. 2011 - Feb. 2014*

# Extracurricular Activity

**Software Maestro 8th**
*Seoul, S.Korea*

Mentee, Backend developer
*Aug. 2017 - Dec. 2017*

- Make the SIGNAL service for connecting people on blockchain
- Implement backend side using python flask

**9XD Hackathon**
*Seoul, S.Korea*

Backend, Awarded the helper, cafe-in prize
*Sep. 2017*

- Make a service to find nearby cafes
- Implement api server using python flask, selenium
- Help other teams with konlpy, paper.js

# Certificate

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|---|---|---|
| 2017 | **Industrial Engineer**,  Information Processing | *MSIP* |
| 2014 | **Open Water**,  SCUBA Diver | *SDI/TDI/ERDI Korea* |