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## Personal Details

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## Interests

Computer Vision (Visual QA, Scene Understanding)  
Unsupervised Learning (GAN, VAE, Autoencoder)  
Free and Open Source Softwares  
Python and JavaScript  
Functional Languages  
CLI Tools

## Education

### Hanyang University (Seoul)

- B.S. in Software Engineering, May 2013 - Present
- B.S. in Mathematics, Aug 2014 - Present

### Internet OCW

- Machine Learning, Andrew Ng (Coursera, Stanford)
- Convolutional Neural Network for Visual Recognition, Fei-Fei Li (Stanford)

## Technologies

### Python:

- Django, Flask, SQLAlchemy
- Celery, Crossbar, Autobahn, asyncio
- NumPy, SciPy, Keras, Tensorflow

### JavaScript:

- Backbone, React, Redux, Electron, Autobahn
- ES6, Webpack, Immutable

### Database:

- MySQL, PostgreSQL, SQLite, Redis

### Others:

- Bash, Git, GNU Make, Docker
- Travis CI, Coveralls, Fabric, AWS

## Open Source Projects

### oracle:

Oracle drops you a prophecy whether if your boss will come to work today

- Technologies: scikit-learn
- Features:
  - Decision-tree-based prediction on whether if your boss will come to work today.

### neural-three-kingdoms:

Text generating bidirectional LSTM learned from 삼국지 of 이문열

- Technologies: Keras
- Features:
  - Generates 삼국지 style text from a given sentence

### news:

#### Asynchronous web subscription engine

- Technologies: `asyncio`, `aiohttp`, Redis, Celery
- Features:
  - Built on top of `asyncio` and `aiohttp`.
  - Supports pluggable backends including *Django ORM* and *SQLAlchemy*.
  - Supports optional schedule persistence via redis.

**anchor** (work in progress):

Web content curation service built on top of *news*

- Technologies:
  - Backend: Flask, SQLAlchemy, Celery, Redis, Crossbar, Autobahn
  - Frontend: Electron, React, Redux, Immutable, ES6, Webpack, Autobahn
- Features:
  - Schedulable web content subscription
  - Personalized web content curation
  - Realtime notification

#### django-record:

Take snapshots of model instances on their changes

- Technologies: Django ORM
- Features:
  - Provides simple mixin which gives auto recording functionality to models.
  - Provides automatic recording for both direct and indirect changes of model instances.
  - Supports property recording for properties that return python primitives.

#### vim-guerilla:

Minimal vim configuration for guerilla devs

- Technologies: Bash, Batch Script, VimL
- Features:
  - Can be deployed to any platform where vanilla vim exists.
  - Can be easily installed and removed without corrupting existing configuration.

#### backbone.csrf

Module for CSRF protection compatible XHR requests from Backbone models

- Technologies: Javascript
- Features:
  - Provides CSRF protected backend compatibility to Backbone models.
  - Supports both CommonJS & AMD specifications.

## Experience

**LG Electronics Co., Ltd.** Seocho, Seoul, Korea

Software Development Intern, Jul 2014 - Aug 2014

- Technologies: *Python*
- Works:
  - Developed Excel table parser and JIRA API wrapper.
  - Automated issue reporting system with the JIRA API wrapper.
  - Tested LG smart TV ported version of WebOS.

**Nexol System Co., Ltd.** Geumcheon, Seoul, Korea

Software Development Intern, Jan 2015 - Mar 2015

- Technologies: *Android*, *Struts2*
- Works:
  - Developed mobile android CMS application for *Samsonite. Korea*.
  - Maintained Struts2 powered backend's CMS validation system for *Samsonite. Korea*.

**Geopia Co., Ltd.** Geumcheon, Seoul, Korea

Software Developer, Apr 2015 - Feb 2017 (Substitute of Mandatory Military Service)

- Technologies: *Android*, *PHP*
- Works:
  - Developed and maintained Android applications for 5 mobile dating services.
  - Developed and maintained PHP backends for 5 mobile dating services.

**Buzzni Co., Ltd.** Gwanak, Seoul, Korea

Software Engineer, Mar 2017 - Present

- Technologies: *Django*, *Flask*, *Falcon*, *SQLAlchemy*, *Celery*, *Nginx*, *AWS*, *Elasticsearch*, *Docker*

