



# Ha Junsoo (河俊秀)

## 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*