



# Ha Junsoo (河俊秀)

## Personal Details

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## Interests

Memory in Neural Networks

Probability Density Estimation

Representation Learning

Free and Open Source Softwares

Scalable Software Architectures

Functional Languages

CLI Tools

## Education

**Hanyang University** (Seoul)

*B.S. in Software Engineering, May 2013 - 2019 (expected)*

*B.S. in Mathematics, Aug 2014 - 2019 (expected)*

## Paper Implementations

**tensorflow-dcgan**: Unsupervised Representation Learning with Deep Convolutional Generative Adversarial Networks, ICLR 2016 [[📄](#)]

**tensorflow-infogan**: InfoGAN: Interpretable Representation Learning by Information Maximizing Generative Adversarial Nets, NIPS 2016

**tensorflow-wgan**: Wasserstein GAN, arxiv:1701:07875

**pytorch-vae**: Auto-Encoding Variational Bayes, arxiv:1312.6114

**pytorch-ewc**: Overcoming Catastrophic Forgetting, PNAS 2017

**pytorch-memn2n**: End-To-End Memory Networks, NIPS 2015

**pytorch-ntm**: Neural Turing Machines, arxiv:1410.5401

**pytorch-splitnet**: SplitNet: Learning to Semantically Split Deep Networks for Parameter Reduction and Model Parallelization, ICML 2017

**pytorch-wrn**: Wide Residual Networks, BMVC 2016

## Open Sources

**dl-papers**: Deep Learning papers which enlightened me

**django-record**: Records snapshot of Django model instances on their updates

**backbone-csrf**: Configure X-CSRFToken header for all Backbone sync requests

**dotfiles**: Personal environment which compliants UNIX philosophy

**news**: Asynchronous web subscription engine written in asynio and aiohttp

## Skills

**Machine Learning:**

- PyTorch, TensorFlow, Keras
- NumPy, SciPy, Scikit-Learn

**Backend / Python:**

- Django, Flask, SQLAlchemy, Celery,
- asyncio, Crossbar, Autobahn, RabbitMQ

**Frontend / JavaScript:**

- Backbone, React, Redux, Electron, Autobahn
- ES6/7, Webpack, Immutable

**Database:**

- MySQL, PostgreSQL, SQLite, Redis

**Dev-Ops:**

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

## Work Experience

**LG Electronics Inc.** Seocho, Seoul, Korea. **Software Development Intern**, Jul 2014 - Aug 2014

**Nexol System Inc.** Geumcheon, Seoul, Korea. **Software Development Intern**, Jan 2015 - Mar 2015

**Geopia** Geumcheon, Seoul, Korea. **Full-Stack Software Developer**, Apr 2015 - Feb 2017 (Substitute of Mandatory Military Service)

**Buzzni** Gwanak, Seoul, Korea. **Backend Software Engineer**, Mar 2017 - July 2017