# 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

TensorFlow implementation of Unsupervised Representation Learning with Deep Convolutional Generative Adversarial Networks, ICLR 2016

### tensorflow-infogan

TensorFlow implementation of InfoGAN: Interpretable Representation Learning by Information Maximizing Generative Adversarial Nets, NIPS 2016

### tensorflow-wgan

TensorFlow implementation of Wasserstein GAN, arxiv:1701:07875

### pytorch-vae

PyTorch implementation of Auto-Encoding Variational Bayes, arxiv:1312.6114

### pytorch-ewc

PyTorch implementation of Overcoming Catastrophic Forgetting, PNAS 2017

### pytorch-memn2n

PyTorch implementation of End-To-End Memory Networks, NIPS 2015

### pytorch-ntm

PyTorch implementation of Neural Turing Machines, arxiv:1410.5401

### pytorch-splitnet

PyTorch implementation of SplitNet: Learning to Semantically Split Deep Networks for Parameter Reduction and Model Parallelization, ICML 2017

### pytorch-wrn

PyTorch implementation of 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 comliants UNIX philosophy
**news**: Asynchronous web subscription engine written in asnycio 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 Delveopment 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 (Substitue of Mandatory Military Service)

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