

# Hoyeong Heo



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<https://github.com/hotohoto/>

## Summary

I am a lifelong programmer.

I am a full-stack machine learning scientist.

I am a persistent learner.

I am a team player.

## Experience



### Data Scientist

ailys Co., Ltd.

Jan 2019 - Jun 2022 (3 years 6 months)

Participated in the development and management of the ML core of DAVinCI LABS:

- Implemented target encoding transform.
- Integrated existing supervised learning algorithms for time series forecasting.
- Added persistence index.
- Adjusted hyperparameter search space after conducting experiments.
- Added ONNX transform. (POC)
- Implemented the model update feature.
- Analyzed/optimized memory use.
- Suggested support for entity-based datasets

Participated in developing the Java prediction server/function:

- Implemented prediction server starting from existing POC code (Thrift, REST API).
- Implemented GRU-D for the Java prediction function.
- Refactored CLI by introducing picocli
- Implemented key-value storage in SQLite3 and its schema migration component.
- Implemented codes for aggregating system information for debugging customer issues better

Participated in projects :

- Fire safety scoring for buildings (POC) - Seoul Metropolitan Fire and Disaster Headquarters
- Coal prices forecasting (time series) - Hucore



### Software Engineer

ailys Co., Ltd.

Aug 2016 - Dec 2018 (2 years 5 months)

Engaged in front-end/back-end/DevOps parts for DAVinCI LABS

- Implemented visualization of decision tree (D3.js), the correlation matrix, and the confusion matrix
- Implemented UI of under/over-sampling, and cascade models
- Implemented I18N
- Improved the layout of Dockerfiles and reduced installer size by half
- Implemented the scheduled training feature
- Developed X-Runner an inference server as a POC (Java, React)

- Developed a handler server supporting seamless container restart and on-premise product authorization
- Skills: Docker, React.js, CSS, MongoDB, Highcharts, D3.js, Celery, Socket.io, GraphQL, AWS



## Software Engineer

### Happy ICT

Sep 2012 - Jul 2016 (3 years 11 months)

Engaged in many Java web projects as a back-end and front-end web developer.

- Meet the server security requirements of SK Telecom.
- Set up Tomcat load balancing.
- Resolved SQL query performance issues.
- Resolved abrupt Linux file resource limitation issues.
- Skills: Tomcat, Spring, Apache web server, IIS, MySQL, SQL Server, Oracle, Apache JMeter, JQuery, JQuery UI, NVD3 (D3.js), Spring security, PBKDF2 Encryption, Thymeleaf, Apache tiles, MyBatis

Developed and improved file module being used on many projects

- Implemented flexible upload module based on javascript jquery plugin
- Designed extensible thumbnail component with high-quality Image resizing.
- Implemented image and attachment upload based on CKEditor plugin
- Developed a common file management component for front-end/back-end.
- Provides customizable options.

Improved the company's common spring web app framework.

- Introduced a full-fledged maven build system



## Software Engineer

### Alticast

Oct 2008 - Jan 2011 (2 years 4 months)

Developed RTSP Client module written on Java. (KT)

Developed Mpeg2-TS Closed Caption module written on C and Java. (KT)

Participated in PVR module maintenance

- Participated in new feature architecture design.
- Developed some porting layer test suites.

Developed an OpenGL android demo application running on set-top box.

Participated in G-Sensor based demo application development.

- Engaged in UI parts, G-Sensor emulation remote controller and porting layer development.
- Analyzed and resolved memory leak problem which was related to graphic modules.

Responsible for TS110 set-top box model maintenance (KT)

Participated in ST-7105 board middleware porting.

- Implemented some of porting layer requirements.

## Education



### Yonsei University

Bachelor of Science in Engineering (공학사), Computer Science and Industrial System Engineering (공과대학 컴퓨터.산업공학)

2001 - 2007

Concentrated on computer science rather than industrial system engineering.

## Licenses & Certifications



**Embedded Developer Training Course (2008-09-001)** - MDS Technology



**Machine Learning** - Coursera Course Certificates

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## Skills

Kubernetes • TensorFlow • SQL • PostgreSQL • AWS • CSS • MongoDB • Highcharts • Celery • Socket.io