Hana **Hoshino**

Master · Computer Science

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Summary

- Skilled in both frontend and backend softwear engineering with a +2 years of real world trainings
- A fast learner, motivated to learn new approaches and techonologies

Education

Tokyo Institute of Technology *Tokyo, Japan*

Bachelor of Computer Science *Apr. 2016 - Mar. 2020*

- Academics: 3.73/4.00 GPA
- Bachelor Thesis: "Generalization Measures using Information Matrices for Deep Neural Network"

Tokyo Institute of Technology *Tokyo, Japan*

Master of Computer Science *Apr. 2020 -*

- Research interest: Machine Learning, Generalization in Deep Learning, Affective Computing, Reinforecement Learning, Immitation Learning

Work Experience

Axon, Inc. *Tokyo, Japan*

Engineering Intern *Dec. 2017 - PRESENT*

- Developed a Slack notification tool for KPI management and business intelligence system
- Implemented a metrics aggregation system for Facebook and Instagram using Metabase
- Developed an official corporate site (https://www.axn.jp) using HTML and CSS

Tokyo Institute of Technology *Tokyo, Japan*

Research Assistant *Jan. 2019 - PRESENT*

- Develop a next version of Fukan System (https://academic-landscape.com/) with ReactJS / Redux / Typescript
- A system which automatically analyzes large-scale bibliographic information using text mining and network analysis, and enables to know the academic landscape

AlpacaJapan Co., Ltd *Tokyo, Japan*

Machine Learning Summer Intern *Aug. 2019 - Sep. 2019*

- Developed a distributed deep learning model, Adanet, to forecast tradings using Pytorch, Python
- Achieved high scores, over 40% validation accuracy using real stock market data

Google Japan G.K. *Tokyo, Japan*

STEP Intern *Oct. 2019 - Nov. 2019*

- Migrate backend server of Google Maps review page to a new server using Google's original framework.
- Contributed in building a new review page that is stronger in security and more flexible for development.

Projects

Pytorch Adanet *2019*

- First implementation for Adanet using Pytorch, as the original implementation was using Tensorflow, published by Google Research
- Trained time series data of the Japanese stock market with multiple GPUs and achieved good results

MAMMOTH (Massive Archive of Models and Matrices for Optimization of Theory in Deep Learning) *2020*

- A dataset containing neural network models and their information matrices/eigenvalues in a wide range of deep learning setups.
- Paper under review for NeurIPS2020

Skills

Programming Python, C/C++, Java, Golang, Redux, React, Vue, Typescript, HTML5, SASS, CSS, SQL

DevOps Docker, GCP, Github

Languages Japanese (Native), English (Native)

Honors and Awards

2017-2018 **Scholarship**, EPATS private fund scholarship in Tokyo Institute of Technology *Tokyo, Japan*

2018 **Scholarship**, Women Techmakers Scholarship Program, Google *APAC*

2018 **Finalist**, Hult Prize at Tokyo Institute of Technology *Tokyo, Japan*

2019 **Scholarship**, Grace Hopper Celebration 2019 Student Travel Scholar, Google *Florida, USA*

Certificates

Jul, 2020 **TOEFL iBT**, 107