Chih-Hao Wang

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EDUCATION

Waseda University   Tokyo, Japan
Computer Science and Engineering, B.E. – GPA: 3.96/4.00, Rank: 1/106   Sep 2015 – Mar 2020
Honors: Scholarship for Successful International Examinees, Global Leader Support Scholarship

National University of Singapore   Singapore
One-year university exchange program   Aug 2017 – May 2018

PUBLICATION

Wang, C.H., Kato, S., and Sakai, T.: RSL19BD at DBDC4: Ensemble of Decision Tree-based and LSTM-based Models, *Proceedings of WOCHAT and DBDC, IWSDS 2019, pdf at arXiv:1905.01799*

- Investigated Decision Trees and DNN approaches for the Fourth Dialogue Breakdown Detection Challenge.
- Ranked 1st, 2nd place among all participants in performance on the English, Japanese dataset, respectively.

PROFESSIONAL EXPERIENCE

LeapMind – *Summer Intern (Deep Learning) – Internship Blog*   Aug – Sep 2019
- Developed an original DNN for optical flow estimation on CPU and FPGA-based devices.
- Reduced the neural network inference time by 53.14% with low-bit quantize-aware training.
- Received the Chief Research Officer award for outstanding performance and great teamwork.
- **Tools:** TensorFlow, Python

Yahoo! – *Intern (E-commerce Backend Engineer)*   Jul – Aug 2018
- Created RESTful APIs by negotiating with 2 designers and 2 frontend engineers in a scrum team.
- Increased throughput by 274% with 95th percentile response time less than 200ms using Redis.
- Scaled the project with load balancing and boosted performance using proxy caching.
- **Tools:** Node.js, Swagger, Apache Traffic Server, Redis, MySQL, JMeter, Screwdriver.cd

Waseda University – *Teaching Assistant (Introduction to Programming)*   Apr – Jul 2017
- Assisted the professor to facilitate the teaching of a C programming course with 60+ students.
- Provided programming ad-hoc consultation sessions in English, Japanese, and Chinese.

RESEARCH EXPERIENCE

Waseda University Sakai Laboratory – *Research Member*   Sep 2018 – Present
- Advisor: Prof. Tetsuya Sakai
- Investigating ML approaches for NLP, including sentiment analysis, dialogue breakdown detection, and dialogue nugget detection.

PROJECTS *(more at github.com/OscarWang114)*

WasedaTime • www.wasedatime.com   Dec 2017 – Present
Self-initiated Project – Source Code
- Leading a 3-person team to develop a full-stack web application for Waseda students, which has acquired more than 4,000 returning users and 300K page views.
- **Tools:** JavaScript, React, Redux, Node.js, Travis CI

Sentiment Analysis on Movie Reviews   Nov 2018 – Feb 2019
Kaggle Challenge – Source Code
- Investigated DNN models for sentiment classification of IMDb movie reviews.
- Achieved an AUC score above 0.90 with FastText embeddings, CNN, and BiLSTM.
- **Tools:** Keras, Python, Google Cloud Platform

SKILLS

- IT: Python, Java, C, HTML5, CSS3, JavaScript, SQL Databases, MongoDB
- Languages: English (GRE: 334/340, TOEFL: 117/120), Japanese (N1), Chinese (Native)