Tae Jin Park

A passionate software engineer with a strong work ethic and diverse background (3+ experience)

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South Korean citizen with lawful permanent residency in the United States of America

Remarkable Work Experience

Worked as a full-time software engineer for 3+ years and started to learn algorithm and programming since I was 10.

Backend Software Engineer @ YOLO (Seoul, South Korea)   **Winter 2018 - Summer 2019**

YOLO Inc. provides a P2P delivery matching service via international travelers with seasonal recommendations of great deals. Before I joined the team, several interns had to continuously and manually look up target cosmetic websites to find good promotions and discount products.

- Built a stable and scalable scraping bot with Selenium and maintained the application for the automation of collecting relevant information.
- There were two constraints.
  - The list of websites that were targeted frequently changed so we could not manually modify the parsing policy.
  - Around half of the websites had essential information in images instead of parsable string.
  - Thus, I needed to design the algorithm that extracts target information from the target websites using only structural features of html objects.
- Designed a robust matching algorithm by defining the tree similarity measure.
- Built an extensible template-based scraping system with the matching algorithm and efficient markup template formats.

Backend Software Engineer @ Wonderlust (Seoul, South Korea)   **Summer 2015 - Fall 2016**

Wonderlust Inc. provided a mobile service that gave its users rewards in exchange for allowing an advertisement to pop up every time they turned off their phone screens.

- Built a REST API server for providing and managing the entire advertisement platform with Flask / MariaDB.
- Collaborated with T-money (Korean public transportation e-card) and built a secure protocol for exchanging virtual currency.
- Built an ad recommender system to get more click from the users. Compared to the previous random ad system, the CVR increased around 10%.

Research Projects

- C. Elegans EM (Electron Microscope) **Image Segmentation** with U-Net-like **DNNs (Deep Neural Networks)**   **2019**
- HAR (Human Activity Recognition) using **Random Forest Decision Tree** and **DNNs**   **2018**
- **Performance Comparison of GPUs** for different types of **neural networks** training and inferencing in real-world situations   **2017**

Education

Ph.D Candidate (Course Completion), Yonsei University — Computer Engineering (IT Integrated Technology)   **Spring 2016 - Summer 2019**

- Massive Data Mining, Principles of Computer Systems, Mobile Computing, Machine Learning, Advanced System Architecture, Memory Architecture and Storage, Advanced Computer Network, Advanced Operating Systems, Introduction to Cloud Computing

Bachelor of Engineering, Yonsei University — Computer Engineering (IT Integrated Technology)   **Spring 2012 - Winter 2015**

- Operating Systems, Computer Systems and System Programming, Computer Network and Distributed Systems, Database and Introduction to Data Mining, User Experience, Technology Management and Entrepreneurship, Signal Processing, Digital Circuit and Systems

Awards & Recognition

- **An award every year from Korea Olympiad in Informatics**   **2006 - 2011**
  * Korea Olympiad in Informatics is a competitive coding contest focused especially on algorithmic problem solving.
- **Samsung HumanTech Paper Award**   **2011**
  * My paper "*Effective Depth Estimation using Flash Device for Refocusing*" was one of 98 papers awarded out of 1462 papers submitted.
- **Samsung SuperRookie Membership**   **2012 - 2015**
  * Every year, Samsung chooses two students who have talent in the various fields. In my case, the field was computer science.

Skills

Programming Language / Frameworks

- Proficient with: C, C++, Python(2 and 3) / Flask, Django, MongoDB, Tensorflow, Keras, GCP
- Have experience with: Java, Golang, Javascript / Nginx, MariaDB, React.js, Docker, Node.js, PostgreSQL, AWS

Language Skills

- English / Korean / Japanese