Ting-Yu (Frank) **Yen**

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Education

University of Texas at Austin (UT-Austin) — *Austin, Texas*

M.S. in Computer Science (Current GPA: 3.89/4.0) — *Aug. 2019 - May. 2021 (Expected)*

- Courses: Database Systems, Algorithm Techniques and Theory, Deep Learning Seminar, Natural Language Processing

National Taiwan University (NTU) — *Taipei, Taiwan*

B.S. in Computer Science (GPA: 3.61/4.3 ; Last 60 GPA: 4.13/4.3) — *Sep. 2014 - Jun. 2018*

- Courses: Natural Language Processing, Web Retrieval and Mining, Applied Deep Learning, Artificial Intelligence

Honors & Awards

2018 **Best Papers Award Nomination**, COLING 2018 **(44/888, 5%)** — *Santa Fe., U.S.A*

2018 **First Place**, Senior Project Contest of NTU CSIE — *Taipei, Taiwan*

Awarded **best** research project (out of 16 projects) by faculty vote and received **$1,000** scholarship.

2018 **Academic Presidential Award**, NTU CSIE Dept. (Spring'18) — *Taipei, Taiwan*

This award is given to student with ranking top **5%** in the department.

Experience

Microsoft, Software Engineer Intern

Key Skills: JavaScript, jQuery, ASP.NET, C, HTML, CSS, Git, Stack Overflow, Python — *Sep. 2017 - Jun. 2018*

- Engaged in **Bing** (https://www.bing.com), which is the **second most popular** search engine in the whole world. Our team is in charge of BingMaps search from **search understanding** to **location indexing** to **API serving**.
- Upgraded **vital APIs** to internal platforms with intensive timeline, and presented my works during a **cross-country conference meeting**.
- Designed a new **workflow** that combined multiple testing programs together, reducing over **40% of engineers' testing time**.
- Developed various new features and **revamped layouts** to increase **user experience** of internal testing tools, and received positive feedback.
- **Maintained, upgraded, and tested** multiple vital internal evaluation tools which were utilized by most team members everyday.
- Composed **detailed specifications** and finished incomplete documents for lots of internal software and services.

IBM, Software Engineer Intern

Key Skills: Docker, Node.JS, HTML, MongoDB, TravisCI, Celery, RabbitMQ, Git, Python — *Jul. 2017 - Aug. 2017*

- Modified **back-end** of a parser product from pipeline to **parallel workflow** by Celery and improved its performance by more than **50%**.
- Brainstormed an solid **back-end workflow** that can distribute gigantic log message to specific parser program with aid of **RabbitMQ**.
- Developed entire **back-end workflow**. **Merged** this feature with its original product and deployed the whole product to **docker**.
- Added python coding style linter into their **continuous integration** pipeline, which is **TravisCI**, in order to maintain coding style consistency for the whole team.
- Investigated and researched **Celery** and **Google Python Coding Style Guide**. Hosted a sharing presentation about an introduction of Google coding style and a **demo** about utilization of Celery.

InfoFab Inc., Software Engineer Intern

Key Skills: Cloud System, BonitaBPM, JavaScript — *Sep. 2016 - Dec. 2016*

- Constructed a business process management program for leave and reimbursement application with an open-source software.
- Integrated BPM program to the **cloud system** and completed the production test.
- Fully participated in project management process, from spec discussion, production demo, and final report with the president and the software manager of the company.

Natural Language Processing Laboratory, Research Assistant

Key Skills: Natural Language Processing, Information Retrieval, LaTeX, Python — *Sep. 2016 - Feb. 2019*

- Presented a **generalized model** from existing sense retrofitting model and outperformed previous approaches by **3%** in experiments.
- My research interest is **ontology embedding**, especially published a sense embedding study on **COLING18**. This paper was also nominated as **best papers award** on COLING18. #Ref: https://reurl.cc/NVaYx
- Papers accepted by COLING18, WWW18, CIKM17. Journals accepted by KAIS and JASIST.

Publications

[1] Y.-Y. Lee*, **T.-Y. Yen***, H.-H. Huang, Y.-T. Shiue, and H.-H. Chen. "GenSense: A Generalized Sense Retrofitting Model." in Proceedings of the 27th International Conference on Computational Linguistics (COLING 2018), Aug. 2018. (acceptance rate: 37%)

p.s. * indicates equal contribution