Ting-Yu (Frank) **Yen**

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Education

University of Texas at Austin — *Austin, Texas*
M.S. IN COMPUTER SCIENCE (GPA: 3.93/4.0) — *Aug. 2019 - Dec. 2020*

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

National Taiwan University — *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

Amazon Web Services (AWS), Software Development Engineer Intern
KEY SKILLS: Java, TypeScript, NodeJS, Lambda, API Gateway, S3, HTML, Git — *Jun. 2020 - Aug. 2020*

- Engaged in **Security Hub**, which is a comprehensive console for AWS users to monitor **security alerts** and **security posture**.
- Designed a **feature flag mechanism** that allows our team to execute **A/B testings** on all accounts in our product at run-time.
- Constructed A/B testing tools on **AWS Lambda with Java**, used **API Gateway** to wrap it as **REST API**, and built **NodeJS Client** that utilizes Post request to interface between Lambda and our services' front-end and back-end.
- Wrote thorough **design documents** and **wiki** that describe workflows, architectures, and APIs of my tool.

Microsoft, Software Development Engineer Intern
KEY SKILLS: JavaScript, jQuery, Database, ASP.NET, C, HTML, CSS, Git, Stack Overflow, Python — *Sep. 2017 - Jun. 2018*

- Worked on **Bing** (https://www.bing.com), which is the second most popular search engine in the whole world.
- Upgraded **vital APIs** of internal platforms with intensive timeline, and presented my works during a **cross-country call**.
- Devised a new back-end workflow that combines multiple testing programs together, reducing over **40% of engineers' testing time**.
- Developed various new features and **revamped our tools' user interface** to enhance **user experience**.
- Composed **comprehensive documents** and finished lots of incomplete documents for internal programs and services.

IBM, Software Development Engineer Intern
KEY SKILLS: Docker, NodeJS, HTML, MongoDB, TravisCI, Celery, RabbitMQ, Git, Python — *Jul. 2017 - Aug. 2017*

- Revamped back-end of a parser product from a pipeline to **parallel workflow** to improve products' performance by more than **50%**.
- Brainstormed a solid **back-end framework** that distributes log messages to any specific parsers with the aid of **RabbitMQ**.
- Developed new features, merged these features to our product, and deployed the whole product to **docker**.
- Added python coding style linter into their **continuous integration** pipeline, which is **TravisCI**, to maintain coding style consistency.
- Hosted a sharing presentation to introduce **Google coding style** and demo the utilization of **Celery** to the whole team.

Natural Language Processing Laboratory, Research Assistant
KEY SKILLS: Natural Language Processing, Information Retrieval, LaTeX, Python — *Sep. 2016 - Feb. 2019*

- Presented a **generalized model** from an 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 **the 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