Po-Yu Hsieh

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EDUCATION

Boston University, Boston, Massachusetts, United States — Sep 2017 — May 2019
Master of Science in Computer Science, GPA: 3.66

- Relevant Coursework: Computational Tools for Data Science, Advanced Databases Applications, Machine Learning, Data Mechanics, Natural Language Processing, Embedding Systems

National Taiwan University (NTU), Taipei, Taiwan — Sep 2009 — Jun 2014
Bachelor of Business Administration in Finance

- Major GPA: 3.68, CS courses GPA: 3.52
- Relevant Coursework: Wireless Networking, Digital Humanities, Digital Visual Effects

WORK EXPERIENCE

Klaviyo, Boston, Massachusetts, United States — Sep 2019 — Sep 2020
Data Science Software Engineer

- Supported team data scientists to gather service data for analysis and potential product ideas
- Sampled and compared service data from different sources to ensure data consistency of feature under development with other services
- Developed product prototype with React, Django, Flask as an internal analytics tool to obtain feedback from customer success and product design teams
- Maintained automated data collecting process for COVID-19 insight analysis[1]

Research Center for Digital Humanities, NTU, Taipei, Taiwan — Jan 2016 – Jul 2017
Research Assistant

- Developed 5 database building and text analysis webpage tools for DocuSky, a database platform to store and analyze text corpus[2]
- Introduced DocuSky and research findings using this platform at the 2016 Conference of Digital Archiving and Digital Humanities[3]

COURSE PROJECTS

Boston StreetCaster[4] (Spark! Practicum, Boston University) — Spring 2019

- Collected sidewalk images from Google's street view API service based on Boston city's geographic street and sidewalk dataset, to help facilitate local sidewalk maintenance
- Provided workflow to transform location coordinates in original geographic dataset, and generate camera settings for API queries to capture images of specified area

DNA Sequence Image Identification[5] (Boston University) — Fall 2018

- Classified type of DNA sequence from fluorescent-labeled DNA images
- Used RetinaNet, TensorFlow, and synthesized images to build up an image object identification model which can locate occurrence of DNA pieces in real image for further classification tasks

Writing Style Analysis (National Taiwan University) — Spring 2014

- Designed a Python 3 text analysis module to compare writing style or habit between different texts with 3 different approaches, then applied it in 2 novel authorship attribution cases
- Re-implemented the algorithm in JavaScript and provided as one of the webpage tools for DocuSky in 2016

TECHNICAL SKILLS

Programming Language

Python, JavaScript (Node.js, ECMAScript 6, TypeScript), Java, C

Databases, Web Applications, Development

- **Databases:** SQL (MySQL)
- **Web Applications:** Django, React, jQuery, CSS/SCSS, HTML
- **Data Science:** Pandas, NumPy
- **Development Tools:** Git/Github, Jupyter

LANGUAGE SKILLS

- English (TOEFL Total 106 (2016); GRE V153/Q167/AW3.0 (2016))
- Mandarin (First Language)

REFERENCES

1. Klaviyo's COVID-19 Insight Page: https://www.klaviyo.com/covid-19-daily-ecommerce-insights
2. DocuSky: https://docusky.org.tw
3. Talk Slides for DADH-2016: https://pse.is/3c42m3 (short URL)
4. StreetCaster Project Repo: https://github.com/ddehueck/BostonStreetCaster
5. XGenomes' Collaboration Project Repo: https://github.com/tnmcneil/XGenomesProject