Chi-Yu Lin

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EDUCATION

Start from Sep 2020	**Computer Science, Master of Science in CS @ Courant Institute of Mathematical Science New York University, New York, USA**
Sep 2015 – Jun 2019	**Information Management, Bachelor of Business Administration** National Taiwan University, Taipei, Taiwan

AWARDS

Jun 2018	Presidential Academic Excellence Award (2nd Semester 2017-18)
Jun 2018	Ranked Number Three in Academic Year 2017-18

PROFESSIONAL EXPERIENCE

Aug 2018 – Jul 2019	**Research Assistant** | NTU, Taipei, Taiwan & **Minister of Education, Taipei, Taiwan**

- Designed and organized comprehensive computational thinking teaching materials for professors and lecturers.
- Filmed and edited demonstrational lectures as reference for professors to use as course teaching material.
- Supervised team members throughout course material research process and provided final corrections.

Mar 2018 – Jun 2018	**Web Programming Intern** | Xaduro Inc, New Taipei, Taiwan

- Conducted regular website system maintenance to eliminate user experience issues.
- Programmed an innovative room booking notification feature to prevent overbooking from different websites.
- Operated data transfer tasks between Xaduro and AsiaYo through Json and utilized JavaScript and php for function development.

Aug 2017 – Feb 2018	**Research Assistant** | NTU, Taipei, Taiwan

- Machine Learning Project – Namesex on PyPI – Package to predict the gender tendency of a Chinese given name. (URL: https://pypi.org/project/namesex/)
- Created vectors from Chinese given names by using Python Word2Vec.
- Responsible for teaching the application of predictive models such as k-NN and logistic regression, validation by k-fold cross validation, as well as model tuning.

Feb 2016 – Aug 2017	**Research Assistant** | NTU, Taipei, Taiwan & **Artificial Intelligence Lab, University of Arizona**

- Installed and operated program trails for software testing to identify errors and defects.
- Designed a new sensor monitoring and data upload function by incorporating the original sensor with Raspberry Pi.
- Conducted regular database maintenance and organizing of information uploaded by the Raspberry Pi to the cloud database.
- Utilized Python and postgreSQL for data upload operations and database management respectively, as well as php for website development.

EXTRACURRICULAR ACTIVITIES

Sep 2016 – Jun 2018	**Member of NTU Softball Varsity Team** | NTU Softball Varsity Team, Taipei, Taiwan

- Participated and competed in the National College Softball Championship.
- Communicated innovative set plays with teammates and team coaches during daily practices.

Sep 2016 – Jun 2017	**Captain of NTUIM Men's Basketball Team** | NTUIM Men's Basketball Team, Taipei, Taiwan

- Planned practice sessions and developed effective game strategies to use during competitions.
- Organized team gatherings and procured department cups for alumni.

Sep 2018 – Jun 2019	**Graduate Representative of NTUIM** | NTU, Taipei, Taiwan

- Coordinated and organized attendance of department professors to student graduation events.

	▪ Planned and supervised graduation ceremony activities to facilitate the smooth progress of the event.
Sep 2015 – Jun 2019	**Class Representative of NTUIM** | NTU, Taipei, Taiwan
	▪ Provided assistance to students of the Information Management Department.
	▪ Organized department events and student activities.
Jan 2017 – Feb 2017	**Lecturer and Teaching Assistant for Python & Web Development Courses** | NTU, Taipei, Taiwan
	▪ Taught 30 beginner students how to build a website using HTML, CSS, and JavaScript.
	▪ Instructed students in Python programming and provided them assistance on assignments.
Jul 2016 – Sep 2016	**Vice Coordinator of Orientation Camp for NTUIM & CL** | NTU, Taipei, Taiwan
	▪ Coordinated and managed camp activities for more than 100 participants.
	▪ Communicated with representatives from Department of Chinese Literature and facilitated student recruitment events. Supervised camp team leaders during freshman orientation events

SELECTED PROJECTS

Jul 2017 – Sep 2019	**Sports Project – Maintenance of the Softball League Statistics Website** | NTU, Taipei, Taiwan
	▪ Responsible for website maintenance, function modification, and system troubleshooting. (URL: http://13.59.8.57)
Nov 2017 – Dec 2017	**Sports Project – Basketball Statistics System** | NTU, Taipei, Taiwan
	▪ Utilized Java to develop statistics system for NTU basketball team.
Jun 2019 – Jul 2019	**ML Project – Unsupervised Classification for Super Basketball League Player** | NTU, Taipei, Taiwan
	▪ Used Python Selenium as web crawler to gather all players' game data.
	▪ Conducted data preprocessing and dimensionality reduction using PCA, t-SNE, and LDA.
	▪ Applied K-means clustering and hierarchical agglomerative clustering to create strategic basketball team formations.
Apr 2018 – May 2018	**ML Project – Foxconn Tech. Stock Price Prediction** | NTU, Taipei, Taiwan
	▪ Gathered news and history on Foxconn Technology Group stock prices and categorized the data in relations to an increase or decrease in stock prices.
	▪ Searched for positive and negative keywords using N-Gram (2 gram ~ 6 gram).
	▪ Used the keywords selected through TF-IDF as features of news to fit into various regression algorithms.
	▪ Utilized k-fold cross-validation to predict the chance of an increase or decrease in stock prices with an accuracy rate of 82%.
Jan 2018 – Feb 2019	**SeeFood – Image Recognition App for Taiwanese Street Gourmet** | NTU, Taipei, Taiwan
	▪ Used Python Selenium as web crawler to gather images of Taiwanese street gourmet from various search engines.
	▪ Responsible for Android App development and data transferring between smartphone and server.

TECHNICAL SKILLS

Programming Language	C/C++、C#、Python、Java、JavaScript、PHP、R、MATLAB
Web Development	HTML、CSS、JavaScript、PHP、Python (Django)、SQL
3D Technologies	WebGL、Three.js、Blender、Unity

CS RELATED COURSEWORK

Core Courses	Programming Design、DSA、OS、Computer Organization & Structure、DB Management、Computer Networks & Applications、System Analysis & Design、Programming Languages (Haskell)、Scientific Computing
Graduate Level Courses	Digital Speech Processing、**Big Data & Business Analytics**、**Intro. to Fintech**、**Information Retrieval & Text Mining**、**Statistical Learning: Theory & Applications**、3D Programming、3D Creation in Reality