**Lily Hsu** *With revolutionary of Big Data Analysis to create sustainable competitive advantagee for everyone and reduce power of consumption. I am because we are, a change agent, adaptive, reliable, responsible and team player. Love travel, reading, music, home improvement.*

Staten Island, New York 10314 •617-717-8780 •[hhy37@hotmail.com](mailto:hhy37@hotmail.com)

<https://www.linkedin.com/in/hui-ying-hsu> <https://github.com/hhy37>

<https://lilyhsu.org>

**Professional Experience**

Allied Management SI, New York  ***Property/ Project Manager****, 2002 – 2018*

Provided data mapping and user interface specifications and processing logic to developers in line with business requirements. Served as primary point of contact on all agreement and validation rules with renters. Offered strategic guidance to clientele on building projects and initiatives. Partnered with clientele to *ensure* requirements alignment with technical team, ensuring project phase compliance on every level.

* Propelled workflows to 300% by revamping key processes and evaluating work collaboration.
* Achieved a 99%, 0-day tenant turnover fulfillment.
* Drove a 50% reduction in cost on all projects cumulatively.

ExxonMobil, Taipei, Taiwan ***Senior System Analyst, GIS Department****, 2001 – 2002*

Directed IT personnel in GIS department throughout separate regions, overseeing five ExxonMobil offices with various international business entities. Maintained and refined a broad knowledge of IT infrastructure, including servers, storage solutions, application development, security, data management, end-user devices, and more. Held concurrent accountability over existing legacy corporate system, issuing daily technical support to end-users, including ticket handling, data integrity assurance, and database query generation.

* Fully developed a user-friendly analytics tool, leveraging technology to enhance and streamline international business operations.
* Successfully optimized and managed DR, LAN, WAN, and telecommunications infrastructure environment.
* Finalized construction of GIS Center Monitoring Computer Office in Taiwan which surpassed the Global GIS center’s networking capabilities for IS system.
* Hired and trained additional staff while supporting strategy and implementation of policies and international business services.

**Additional Experience:**

* **Systems Analyst**, *York College (CUNY)*
* **Lecturer Technician**, *College of Staten Island*

**Education and Credentials**

**Master of Science, Management – Big Data Track,** *Cumulative GPA: 3.95*(12/2018)

School of Business, College of Staten Island, The City University of New York

**Dual bachelor’s degrees of Science in Economics & International Business**

College of Staten Island, New York

**Honors and Membership**

#### **2019** [**Sigma Beta Delta Honor Society (Chapter 372)**](https://www.linkedin.com/groups/8132330/8132330-6402642223644569601)

* **Information System Society**
* **Global Graduate Business Competition:** *Led a team to successful refine and implement* effective business strategies including R&D, Marketing, Production, Forcasting and Finanance in global market*.*
* **USA Swimming** *Stroke & Turn judge*
* **Web Scraping, Women who code, SAP, Google, NYC GDG,** [**Google Cloud Next Extended**](https://www.meetup.com/cloudnyc/events/252778523/)

#### **Microsoft Bot, Power BI, DevOps UN Women, Blockchain, IBM Blockchain etc. Meetup,** Attendee

***Technical Skills***

|  |  |
| --- | --- |
| **Languages*:*** | Python, Panda, Jupyter, R, SAS, SAS (SEMMA), Rattle, STATA, SQL, HTML, C+, VBA, PowerShell, Anconda, Visual Studio Code. |
| **Applications:** | Microsoft Azure Machine Learning Studio, Microsoft Azure architecture and its components (Fabric, Compute, Storage, ML, Management Portal, IoT, Stream Analytics, Text Analytics API, Bot Builder, QnA Maker), Azure Notebooks, WebScraping, Anaconda, [Serverless Web Apps](https://qwiklabs.com/quests/21?catalog_rank=%7B%22rank%22%3A8%2C%22num_filters%22%3A0%2C%22has_search%22%3Atrue%7D&search_id=789453), RapidMiner, SAS E-Miner , [Amazon DynamoDB](https://qwiklabs.com/focuses/271?parent=catalog), AWS Lambda, Visual Studio 2017, QGIS, ArcGIS, Power BI, PowerPivot, QlikSense, Tableau, TensorFlow, Google analytic, MS Form, Workstation, VMware, Adobe Acrobat, Adobe Photoshop, GitHub, AutoCAD, TeamViewer |
| **Platforms:** | Windows 10 Workstations, MacOS, Android, Docker, VirtualBox, IDE |

**Representative Projects**

* Predict Future Mortgage Interest Rate: develop a prediction model for the mortgage interest rate using the 2016 Federal Housing Finance Agency (FHFA) Federal Home Loan Bank Purchased Mortgage Files.
* Predict Mortgage Default: use a prediction model for the case of default payments in Taiwan TM and compares the predictive accuracy of probability of default among six data mining methods.
* Web Scrapping on Twitter, stocks price tracking.
* Stream Analytics: Auto stream Car Toll Collection on Azure platform’s Stream Analytics tools.
* Cash unlock app: develop marketing strategy for an app to give out cash to exchange advertisement and research opportunities to compete with google.
* Data Mining: Using NYC open database- museum, cultural locations, parks and transportation files from portal with ArcGIS, authoring an analytical proposal and solution to Government official on Eco development policy decision strategies.
* Immigration correlation forecast: Utilizing Time Series with US new and used car sales reports to forecast and backcast trends with SWOT analysis comparison of WTI, CPI, Unemployment Rate, Personal Consumption Expenditure, and housing start data.
* Capstone Global DNA: Developed and implemented effective business strategy intelligence, garnered into Global operations in R&D, Marketing, Production, Forcasting and Financial Projection to compete differing conditions and their influence in global markets.