Po-An Chen

(Software Engineer/ Data Engineer)

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EDUCATION:

- **University of Washington**, Seattle (Sep 2021 – Jun 2023)
  Degree: Master Major: Statistic – Advanced Methods and Data Analysis Overall GPA : 3.71/ 4.0
- **National Taipei University**, New Taipei City (Sep 2015 – Jun 2019)
  Degree: Bachelor Major: Statistic Overall GPA: 3.00/ 4.0

TECHNICAL SKILLS:

- **Programming:** Python, MS SQL, DynamoDB, AstrixDB, R, SAS, C/C++, Java, JavaScript (TypeScript)
- **Additional Skills:** Web Data Extraction, Data Analyze, Tableau, LaTeX Compiling, Cloud service (AWS, Azure)
- **Experienced with:** D3.js, Vega-Lite (JS), Node.js, React.js, Tensorflow, Django, dask (Python), MPI (C/C++), GSL (C/C++)

WORK EXPERIENCE:

Jersey STEM, New York (Jul 2023 – Sep 2023)
Individual Contributor / Scrum Master Intern

- Spearheaded the development of custom scripts, seamlessly integrating multiple APIs to enhance workflow efficiency.
- Successfully led and coached a team as a Scrum Master, overseeing the management of more than 20 tickets on a weekly basis.
- Contributed to the creation of over five comprehensive reports, providing critical data-driven guidance for decision-making.

Big Data Center in National Taipei University, New Taipei City (Oct 2020 – Sep 2021)
Administrative Assistant / Research Assistant

- Conceptualized and designed a robust ETL pipeline to efficiently manage and process a 800GB dataset of research data.
- Skillfully managed and tracked budgets for research initiatives, ensuring financial accountability and resource optimization.
- Demonstrated exceptional leadership by guiding a team of over 10 undergraduate student researchers within the organization.

St.Shine Optical Co., Ltd, New Taipei City (May 2019 – Jul 2019)
IT Department Assistant

- Held a pivotal role in overseeing the management and processing of departmental data related to retail information analysis.
- Demonstrated proficiency in creating comprehensive debug report documents, ensuring issue resolution and system reliability.
- Delivered technical support services, resolving computer and equipment issues to maintain uninterrupted operations.

PROJECT EXPERIENCE:

Effectiveness of Tree-Maps as Tree Visualization Techniques (May 2022 – Jun 2022)
Project contributor, University of Washington

- Designing a research study focused on evaluating the effectiveness of 4 distinct tree maps utilizing tree structure visualization.
- Skillfully constructed an engaging and interactive website using WebSlides.js, featuring dynamic displays of various tree maps.
- Designing five highly informative tree maps and additional data tables utilizing JavaScript, D3.js, and Vega-Lite.

Cellphone Signal Positional Data Processing and Analyzing (Nov 2020 – Sep 2021)
Project Manager, Big Data Center in New Taipei City

- Utilizing geospatial techniques to estimate population flow, thereby informing strategic decisions regarding the optimal placement of 5G cell sites, social housing, and the allocation of critical resources such as firefighters and the police office.
- Ledding the development of a real-time standard for analyzing human behavior, replacing the registration-based approach.
- Acting as a bridge between five esteemed professors within the Center and government officials from various departments.

A Corrected Approach to Post-prediction Inference for Longitudinal Data (Feb 2023 – Mar 2023)
Project contributor, University of Washington

- A post-prediction inference correction procedure (called “postpi”) was recently proposed by Wang et al., which is generalizable to any machine learning method and leverages a simple relationship model between observed and predicted outcomes.
- Proposing a modified procedure and show that it can provide robust inference for clustered data with predicted outcomes.