Yi-Chia "Kevin" Chen

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EDUCATION

Georgia Institute of Technology   Atlanta, GA
M.S. in Computer Science, GPA 4.0/4.0   Aug 2021 – Expected May 2023
- Courses: Data & Visual Analytics, Intro to Database Systems, Blockchain & Cryptocurrencies.

National Cheng Kung University   Tainan, Taiwan
B.S. in Computer Science, GPA 3.55/4.3   Sep 2015 – June 2020
- Courses: Data Structures, Algorithms, Operating Systems, Compiler, Computer Networks, Data Mining.

SKILLS

Languages   C, C++, C#, Java, Python, R, SQL, Scala, JavaScript, HTML, CSS, Haskell.
Frameworks   D3.js, ASP.NET, Hakyll.
Others   Git, Unix/Linux, GCP, BigQuery, Data Studio, Matillion ETL, Apache Spark, MongoDB, Docker.

WORK EXPERIENCE

Institute of Information Science, Academia Sinica   Taipei, Taiwan
Research Intern   July 2020 – Dec 2020
- Researched Brzozowski's derivative and parser combinators to solve parsing problems, then developed programs and derived solutions from formal specifications, using **Haskell** and functional programming paradigm.
- Built a course website for the instructor to deliver materials to **100+** undergrads with **Hakyll** and **Pandoc**.

PIXNET Digital Media Corporation   Taipei, Taiwan
Data Analyst Intern   Aug 2019 – Dec 2019
- Retrieved **100+ GB** data from **Google BigQuery** with **SQL** and **gsutil** to create dashboards or charts for evaluating marketing results with **Python**, **R**, and **Google Data Studio**.
- Automated the process of importing data from Google Sheets to **BigQuery** with **Matillion ETL** and **Python**.
- Proposed revision of website layout to improve user experience and ad revenue by analyzing clickthrough rate.

PROJECTS

Air Quality Data Collection, Analysis, and Prediction from Scratch at NCKU   Dec 2018 – Sep 2019
- **Award: 3rd Place** of *2019 CSIE Department Research Project Competition*.
- Collaborated with teammates to collect data with **Arduino** and store them with **MongoDB** and **Docker**.
- Preprocessed **4 months** of data and visualized them with **Python** to find insights, including patterns in the periodic changes, and correlations between attributes.
- Developed PM 2.5 forecasts with deviation **less than 28%** by training various machine learning models and adding other scraped weather factors with **Python**.

THE ONE: Interactive Book Recommendation System   Sep 2021 – Dec 2021
- Created interactive graphics with tooltip to display popular books among a country or a book category with **D3.js**.
- Produced book recommendations based on scraped tweets by building **bag-of-words model**.
- Determined popularity of books and calculated similarity between book content and user input with **Python**.

Tagging of Thesis   Dec 2019 – Jan 2020
- **Award:** Ranked the **top 25%** for the *AI CUP 2019: Artificial Intelligence Analysis and Classification of Thesis*.
- Conducted experiments on the dataset with various models, including **RoBERTa**, **LSTM**, **XLNet**, with **Python**.
- Built a model that predicted tags for sentences by **70%** F1-score with **GRU** (Gated Recurrent Units) model.

Finance Hero: A Simple Budgeting App   June 2018 – July 2018
- Designed the app with a minigame inside using **C#** following OOP principles.
- Integrated the app with **Microsoft SQL Server database** to store user spending and game records with **SQL**.
- Visualized a user's monthly spending by category in pie chart with **ASP.NET** Chart control.