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 Java, JavaScript, HTML, CSS, Python, SQL, C, C++, C#, R, Scala, Haskell.
Frameworks React.js, D3.js, Node.js, Flask, ASP.NET, Hakyll.
Others MongoDB, Docker, GCP, Spark, Unix/Linux, Git.

Work Experience

Institute of Information Science, Academia Sinica Taipei, Taiwan
Research Intern July 2020 – Dec 2020

- Built a course website for the instructor to deliver materials to **100+** undergrads with **Hakyll**.
- Researched Brzozowski's derivative and parser combinators to construct parser with **Haskell**.
- Studied how to develop programs with functional programming paradigm; explored programming language theory with extensive journal reading.

PIXNET Digital Media Corporation Taipei, Taiwan
Data Analyst Intern Aug 2019 – Dec 2019

- Manipulated **100+ GB** data using **BigQuery** and **gsutil**; created dashboards to uncover marketing insights with **Data Studio**, **Python**, **R**, and **D3.js**.
- Automated the process of importing data from Google Sheets to **BigQuery** with **Matillion ETL** and **Python**.
- Presented new website layouts 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 **4-month** data with **Arduino**; hosted **MongoDB** and **Flask** server on **Docker** for storage and access.
- Created a CLI tool for data visualization with **Python** to analyze patterns in the periodic changes and correlations between attributes.
- Developed PM 2.5 forecasts with deviation **less than 28%** by training **machine learning** models, including regression and time series analysis.

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 **NLP** 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.