

Yi-Chia “Kevin” Chen

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EDUCATION

Georgia Institute of Technology

M.S. in Computer Science, GPA 4.0

Atlanta, GA

Aug 2021 – Expected May 2023

- Relevant Courses: Data & Visual Analytics, Intro to Database Systems, Blockchain & Cryptocurrencies.

National Cheng Kung University

B.S. in Computer Science, GPA 3.5

Tainan, Taiwan

Sep 2015 – June 2020

- Relevant Courses: Data Structures, Algorithms.

SKILLS

Languages Java, JavaScript, HTML, CSS, Python, SQL, C, C++, C#, R, Scala, Haskell.

Frameworks React.js, D3.js, Node.js, Flask, ASP.NET, Haxyll, PySpark.

Others MySQL, MongoDB, Spark, Docker, GCP, Unix/Linux.

WORK EXPERIENCE

Institute of Information Science, Academia Sinica

Research Intern

Taipei, Taiwan

July 2020 – Dec 2020

- Built a course website for the instructor to deliver materials to **100+** undergrads with **Haxyll**.
- 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

Data Analyst Intern

Taipei, Taiwan

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.

KEY PROJECTS

Banking Management Service

- Built an app that provided different banking functionalities for different user roles.
- Implemented the backend that conformed to RESTful APIs using **Node.js** and **Express.js**; designed responsive frontend using **React.js**.
- Developed stored procedures and views to manipulate data and display stats using **MySQL**.

Air Quality Data Collection, Analysis, and Prediction from Scratch at NCKU

- **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.

Tagging of Thesis

- **Award:** Ranked the **top 25%** for the AI CUP 2019: Artificial Intelligence Analysis and Classification of Thesis.
- Trained the dataset with Neural Network models, including **RoBERTa**, **XLNet**, **LSTM**, and **GRU**, and achieved **70%** F1-score on tags prediction task, using **PyTorch** and **Simple Transformers**.

Finance Hero: A Simple Budgeting App

- 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.
- Visualized a user’s monthly spending by category in pie chart with **ASP.NET Chart** control.