

Yi-Chia “Kevin” Chen

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KEY SKILLS

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

Frameworks PySpark, D3.js, ASP.NET, Hakyll

Others GCP, BigQuery, Data Studio, Spark, Docker, MySQL, MongoDB, Matillion ETL, Tableau

EDUCATION

Georgia Institute of Technology

Atlanta, GA

M.S. in Computer Science

Aug 2021 – Expected May 2023

- Relevant Courses: Data & Visual Analytics, Blockchain & Cryptos, Database Systems

National Cheng Kung University

Tainan, Taiwan

B.S. in Computer Science

Sep 2015 – June 2020

- Relevant Courses: Data Mining, Data Structures, Algorithms

PROFESSIONAL EXPERIENCE

Institute of Information Science, Academia Sinica

Taipei, Taiwan

Research Intern

July 2020 – Dec 2020

- Researched Brzozowski’s derivative and parser combinators to construct context-free parser using functional programming with **Haskell**.
- Studied how to do formal verification using type systems with interactive proof assistant **Agda**.
- Built a course website for the instructor to deliver materials to **100+** undergrads with **Hakyll**.

PIXNET Digital Media Corporation

Taipei, Taiwan

Data Analyst Intern

Aug 2019 – Dec 2019

- Created dashboards to uncover marketing insights with **BigQuery**, **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

Banking Management Service System

- Collaborated with teammates to build a banking app that provided different access for various user roles.
- Implemented the backend that conformed to RESTful APIs using **Node.js (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 host **MongoDB** and **Flask** server on **Docker** for data storage and access; collected **4-month** meteorological data using sensors paired to **Arduino**.
- Created a CLI tool for data visualization with **Python** to analyze air quality patterns.
- 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.