

Yi-Chia “Kevin” Chen

📍 Atlanta, GA 📞 (530)648-7910 ✉ kvnyijia@gmail.com 🔗 [linkedin.com/in/kvnyijia](https://www.linkedin.com/in/kvnyijia) 🐙 github.com/kvnyijia 🏠 kvnyijia.github.io

SKILLS

Programming C++, Python, Java, Scala, JavaScript, React, React Native, Node.js, HTML, CSS, SQL, C, C#
Technologies MongoDB, Express, MySQL, Docker, AWS, Flask, jQuery, REST, AJAX, Linux, Git
Others Fullstack, Mobile, Machine Learning, Parallel Computing, Distributed Systems

EDUCATION

Georgia Institute of Technology

Aug 2021 – May 2023

Master of Science in Computer Science, GPA 3.6

Atlanta, GA

- Database (MySQL), Machine Learning (Keras, scikit-learn, NumPy), Mobile (React Native), Data & Visual Analytics (Scala, Spark), Blockchain & Cryptos (Solidity, Web3.js)

National Cheng Kung University

Sep 2015 – June 2020

Bachelor of Science in Computer Science, GPA 3.5

Tainan, Taiwan

- Object Oriented Programming (C++, C#), Data Mining (Python), Data Structures, Algorithms

WORK EXPERIENCE

Georgia Institute of Technology

Aug 2022 – Dec 2022

Graduate Research Assistant

Atlanta, GA

- Implemented message-passing programs for distributed systems using **actor model** with C++ parallel programming library **HCLib**.
- Researched HCLib-Actor programs, and documented the usages of its primitive constructs.

Academia Sinica

July 2020 – Dec 2020

Research Intern

Taipei, Taiwan

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

PIXNET Digital Media Corporation

Aug 2019 – Dec 2019

Data Analyst Intern

Taipei, Taiwan

- 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**.
- Proposed new website layouts to improve user experience and ad revenue by analyzing clickthrough rate.

KEY PROJECTS

“THE ONE” – Interactive Book Recommendation System

Oct 2021 – Dec 2021

Fullstack Web Application, Machine Learning [\[github\]](#)

- Launched the website that retrieved data from **Flask** backend by performing **AJAX** requests with **jQuery**.
- Designed frontend with interactive visualization to display popular books with **D3.js**.
- Preprocessed text data, and developed book recommender by creating NLP model with **scikit-learn** and **NLTK**.

Banking Management Service System

Apr 2022 – May 2022

Fullstack Web Application

- Collaborated with teammates to construct backend that conformed to **REST APIs** using **Node.js** (Express.js) and design responsive frontend using **React.js**.
- Implemented stored procedures and virtual tables to manipulate data and display stats using **MySQL**.

“Taste” – Mobile App for Finding Restaurants Based on Personal Preference

Oct 2022 – Dec 2022

Mobile Application [\[github\]](#)

- Built and designed the frontend with **React Native**, and developed map features with **Google Map APIs**.
- Collaborated with teammates to integrated the app with backend that conformed to **REST APIs** using **Flask** and **Postgres**.

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

May 2019 – Sep 2019

Data Analytics, Machine Learning [\[github\]](#) [\[CLI\]](#)

- Won **3rd Place** in 2019 CSIE Department Research Project Competition.
- Created a CLI tool for data visualization with **Python** to analyze air quality patterns.
- Presented PM 2.5 forecasts with deviation < **28%** by training **machine learning** models, including regression and time series analysis.
- Worked in group to containerize **MongoDB** and **Flask** server with **Docker** for data storage and retrieval; collected **4-month** meteorological data using sensors paired to **Arduino**.