

Yi-Chia “Kevin” Chen

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SKILLS

Programming: Java, JavaScript, Python, C++, C, C#, SQL
Software: Docker, Kubernetes, AWS, Postgres, MySQL, Unix/Linux, Git
Fullstack: MongoDB, Express, React, React Native, Node, Flask, REST, HTML, CSS, jQuery, AJAX
Coursework: Machine Learning (Keras, sklearn, NumPy), Data Analytics (AWS, Spark, Scala, Databricks), Object Oriented Programming, Database, Data Mining, Data Structures, Algorithms

EDUCATION

Georgia Institute of Technology Aug 2021 – May 2023
Master of Science in Computer Science, GPA 3.6 Atlanta, GA
National Cheng Kung University Sep 2015 – June 2020
Bachelor of Science in Computer Science, GPA 3.5 Tainan, Taiwan

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 **Python**, **sklearn**, **pandas** 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**.