

Yi-Chia “Kevin” Chen

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SKILLS

Programming: Python, Haskell, Java, JavaScript, C++, C, C#, SQL
Software: Unix/Linux, Git, Docker, AWS, Postgres, MySQL
Fullstack: MongoDB, Express, React, React Native, Node, Flask, REST, HTML, CSS, jQuery, AJAX
Coursework: Blockchain & Cryptos (Solidity, Web3.js, Truffle), 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**.