

# Yi-Chia “Kevin” Chen

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## SKILLS

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- C++, C, C#, Python, Java, JavaScript, React.js, D3.js, Node.js, Flask, jQuery, HTML, CSS, SQL
- MySQL, MongoDB, Docker, .NET, React Native, REST APIs, AJAX, Linux
- Web Development, Mobile Development, Machine Learning, Parallel Computing, Distributed Systems

## WORK EXPERIENCE

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### Georgia Institute of Technology

Atlanta, GA

#### Graduate Research Assistant

Aug 2022 – Dec 2022

- 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

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**.
- Programmed a course website for the instructor to deliver materials to **100+** undergrads with **Haskell**.
- Studied how to do formal verification using type systems with interactive proof assistant **Agda**.

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

## EDUCATION

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### Georgia Institute of Technology

Atlanta, GA

#### Master of Science in Computer Science, GPA 3.6

Aug 2021 – May 2023

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

### National Cheng Kung University

Tainan, Taiwan

#### Bachelor of Science in Computer Science, GPA 3.5

Sep 2015 – June 2020

- Data Structures, Algorithms, Object Oriented Programming (C++, C#), Operating Systems (C)

## KEY PROJECTS

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### “THE ONE” – Interactive Book Recommendation System

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

- Launched the website that retrieved data from **Flask** backend by performing **AJAX** requests with **jQuery**.
- Developed book recommender by creating NLP model with **scikit-learn**, and visualized results with **D3.js**.

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

#### 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

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

- Won **3rd Place** of 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**.

### “Finance Hero” – A Simple Budgeting App

#### Windows Form Application [\[github\]](#)

- Built and 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.