

# Yi-Chia “Kevin” Chen

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

## SKILLS

**Programming:** Java, JavaScript, TypeScript, Python, Go, C++ , C, C#  
**Certifications:** AWS Certified Solutions Architect Associate (EKS, ECR, EC2, RDS)  
**Software:** Docker, Kubernetes, Postgres, MySQL, SQL Server, .NET, Unix/Linux, Git  
**Fullstack:** MongoDB, Express, React, React Native, Node, Flask, REST API, GraphQL, jQuery, AJAX

## EDUCATION

**Georgia Institute of Technology** Aug 2021 – May 2023  
*Master of Science in Computer Science, GPA 3.5* Atlanta, GA  
• **Coursework:** Machine Learning, Data Analytics, Blockchain, Networks, Info Security, Mobile Applications, Database

**National Cheng Kung University** Sep 2015 – Jun 2020  
*Bachelor of Science in Computer Science, GPA 3.5* Tainan, Taiwan  
• **Coursework:** Object Oriented Programming, Computer Architecture, Operating Systems, 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**.  
• Conducted research on HCLib-Actor programs and documented the usage of its primitive constructs.

**Academia Sinica** Jul 2020 – Dec 2020  
*Research Intern* Taipei, Taiwan  
• Constructed context-free parser using Brzozowski’s derivative and **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 data import process from Google Sheets to **BigQuery** using **Matillion ETL** and **Python**.  
• Proposed new website layouts to improve user experience and ad revenue by analyzing clickthrough rate.

## PROJECTS

**“Mini Reddit” – Lightweight Content Rating System** May 2023 – Jun 2023  
*Fullstack Web Application* [\[github\]](#) [\[github\]](#)  
• Developed a **GraphQL** server using **Apollo Server** and **Express**, integrating it seamlessly with **Redis** and **Postgres**.  
• Designed the **GraphQL** schema and resolvers using **TypeGraphQL** and **TypeScript**.  
• Built a server-side rendered **React** web client in **Next.js**.

**“Simple Bank” – Banking Service System Using Golang** Apr 2023 – May 2023  
*Backend Web Application, Microservices* [\[github\]](#)  
• Developed and launched **Go** backend with **REST APIs** using **Gin**, enabling users to manage bank accounts.  
• Ensured the proper functionality of APIs and CRUD operations on **Postgres** by implementing unit tests in **Go**.  
• Deployed the service to **Kubernetes** clusters on **AWS EKS** and established a production database on **AWS RDS**.

**“Taste” – Mobile App for Finding Restaurants Based on Personal Preference** Oct 2022 – Dec 2022  
*Mobile Application* [\[github\]](#)  
• Built and designed the frontend using **React Native**, integrating it with the **Flask** backend and **Postgres**.  
• Implemented functionality to display nearby recommended restaurants on a map using **Google Map APIs**.

**“THE ONE” – Interactive Book Recommendation System** Oct 2021 – Dec 2021  
*Fullstack Web Application, Machine Learning* [\[github\]](#)  
• Developed a book recommender system by creating NLP models using **Python**, **sklearn**, **pandas** and **NLTK**.  
• Launched the website that retrieves data from **Flask** backend through **AJAX** requests using **jQuery**.  
• Designed an interactive visualization frontend using **D3.js** to display popular books.

**Air Quality Data Collection, Analysis, and Prediction from Scratch at NCKU** May 2019 – Sep 2019  
*Data Analytics, Machine Learning* [\[github\]](#) [\[github\]](#)  
• Won **3rd Place** in 2019 CSIE Department Research Project Competition.  
• Presented PM 2.5 forecasts with deviation < 28% by training machine learning models, including regression and time series analysis, with **Python** and **sklearn**.  
• Collaborated in a team to containerize **MongoDB** and **Flask** server with **Docker** for data storage and retrieval. Additionally, collected 4-month meteorological data using sensors paired to **Arduino**.