

# Yi-Chia “Kevin” Chen

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## SKILLS

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

## EDUCATION

**Georgia Institute of Technology** Aug 2021 – May 2023  
*Master of Science in Computer Science, GPA 3.6* Atlanta, GA  
◦ **Coursework:** Mobile Applications, Database, Networks, Info Security, Blockchain, Machine Learning, Data Analytics

**National Cheng Kung University** Sep 2015 – June 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**.  
◦ Researched HCLib-Actor programs, and documented the usages of its primitive constructs.

**Academia Sinica** July 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 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

**“Simple Bank” – Banking Service System Using Golang** Apr 2023 – May 2023  
*Backend Web Application, Microservices* [\[github\]](#)  
◦ Launched **Go** backend with **REST APIs** that allows users to manage accounts using **Gin**.  
◦ Ensured the APIs and CRUD operations on **Postgres** function correctly by writing unit tests in **Go**.  
◦ Deployed the service to **Kubernetes** clusters on **AWS EKS**, and created production database on **AWS RDS**.

**“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** and **NLTK**.

**“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 integrated it with **Flask** backend and **Postgres**.  
◦ Displayed nearby recommended restaurants on map with **Google Map APIs**.

**“I Love Mining” – A Puzzle Solver** Mar 2022 – Apr 2022  
*C++ Multi-Threading* [\[github\]](#)  
◦ Implemented ABI Encoding of 256-bit unsigned integers with **Boost**, and mined coins on an Ethereum’s smart contract with **C++ multi-threading**.

**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.  
◦ Presented PM 2.5 forecasts with deviation < **28%** by training **machine learning** models, including regression and time series analysis, with **Python** and **sklearn**.  
◦ 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**.