

Kevin Chen (Yi-Chia Chen)

(530)648-7910 | kvnyijia@gmail.com | [linkedin.com/in/kvnyijia](https://www.linkedin.com/in/kvnyijia) | github.com/kvnyijia | kvnyijia.github.io | Pleasant Hill, CA

SKILLS

Programming: Java, JavaScript, TypeScript, Python, Go, C++ , C, C#
Fullstack: Spring Boot, Hibernate, .NET, Flask, Gin, Node, Express, React, Next.js, REST API, GraphQL, gRPC
DevOps: Docker, Kubernetes, JUnit, Maven, IntelliJ, Postman, GitHub Actions CI
Cloud / DB: Postgres, MySQL, MongoDB, Redis, AWS (EC2, RDS, EKS, SQS, SNS, etc.)
Certification: AWS Certified Solutions Architect Associate

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
• Achieved parallelism in C++ by using the parallel computing model **HClib**.
• Researched the concurrency model **Actor model** for distributed asynchronous computations.
• Conducted experiments on HClib-Actor programs and documented the behaviors of their parallel primitives.

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 **Node Express** server with **Apollo GraphQL** middleware, backed by **Redis** and **Postgres**.
• Designed the **GraphQL** schema and resolvers using **TypeGraphQL** and **TypeScript**.
• Built a server-side rendered **React** web client in **Next.js** and **TypeScript**.

"Simple Bank" – Banking Service System Using Golang Apr 2023 – May 2023
Backend Web Application, Microservices [\[github\]](#)
• Launched **Golang Gin** backend with **REST APIs** and backed by **Postgres**, and used **JWT** for authentication.
• Verified correctness of APIs and CRUD operations by writing unit tests in **Golang** and using **Postman**.
• Deployed the service to **Kubernetes** clusters on **AWS EKS**, and established a production database on **AWS RDS**.
• Augmented the **Golang** backend with **gRPC** and **gRPC Gateway** using **Protocol Buffers**.

"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 **Python 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 a website that gets responses from **Python Flask** backend through **AJAX** requests using **jQuery** and **JavaScript**.
• Designed frontend with interactive visualization using **D3.js** and **JavaScript** to display popular books.

"Finance Hero" – A Simple Budgeting App Jun 2018 – Jul 2018
C# .NET Application, Object Oriented Programming [\[github\]](#)
• 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.