

# KEVIN CHEN (YI-CHIA CHEN)

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## SKILLS

**Languages:** Java, JavaScript, TypeScript, Python, Go, C++, C, C#

**Fullstack:** Spring Boot, Hibernate, Flask, Gin, Node, Express, React, Next.js, REST API, GraphQL, gRPC

**DevOps:** Docker, Kubernetes, JUnit, Maven, IntelliJ, Postman, GitHub Actions CI, Linux

**Cloud/DB:** Postgres, MySQL, MongoDB, Redis, AWS (EC2, RDS, EKS) (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

## EXPERIENCE

### AeroTract, LLC

Sep 2023 – Present

Software Engineer Intern

Albany, OR

- Developing a web application for adjusting configurations to train machine learning models using **TypeScript** and **React**.
- Implementing APIs and SDKs in the backend using **Python Flask**, and integrating the web client with it.

### Georgia Institute of Technology

Aug 2022 – Dec 2022

Graduate Research Assistant

Atlanta, GA

- Achieved parallelism in **C++** by using the parallel computing model **HCLib** following OOP principles.
- 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” – Content Rating System | Next.js, React, TypeScript, GraphQL [\[github\]](#) [\[github\]](#)

May 2023 – Jun 2023

- 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 | Golang, AWS, gRPC, Microservices [\[github\]](#)

Apr 2023 – May 2023

- 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” – Restaurant Finder | React Native, Mobile Application [\[github\]](#)

Oct 2022 – Dec 2022

- 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” – Book Recommendation System | Machine Learning, NLP, Python, D3.js [\[github\]](#)

Oct 2021 – Dec 2021

- 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.