# KEVIN CHEN (YI-CHIA CHEN)

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### **EDUCATION**

Georgia Institute of Technology

Master of Science in Computer Science | GPA 3.5

Aug 2021 – May 2023 Atlanta, GA

**National Cheng Kung University** 

Sep 2015 - Jun 2020 Bachelor of Science in Computer Science | GPA 3.5 Tainan, Taiwan

Courses: Machine Learning, Data Analytics, Blockchain, Network (TCP/IP), Info Security (TLS), Data Structure, Algorithm

## EXPERIENCE

AeroTract, LLC

Sep 2023 - Jan 2024

Software Engineer Intern

Albany, OR

• Led the software development of a web app from scratch, saving engineers 300+ hours yearly by designing UIs for finetuning machine learning configurations using TypeScript and React. Implemented REST APIs and SDKs using Python Flask.

• Debugged and fixed long-existing frontend issues of an internal dashboard using React, Bootstrap and JavaScript.

# Georgia Institute of Technology

Aug 2022 - Dec 2022

Graduate Research Assistant

Atlanta, GA

• Achieved SPMD parallel execution using C++ parallel computing model HClib, OpenSHMEM and MPI, reducing runtime by over 50%. Studied the concurrency model Actor model for distributed asynchronous computations.

• Researched and built HClib-Actor programs using C++, then documented the semantics of the synchronization primitives.

Academia Sinica

Jul 2020 - Dec 2020

Taipei, Taiwan

Research Intern 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.

## **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**.

### **PROJECTS**

"Words" – Flashcard Maker 🖓 😯 | iOS Development, Spring Boot, JUnit, Object-Oriented Programming

Sep 2023 - Oct 2023

- Designed a native iOS app that turns word definitions into flashcards using Swift, SwiftUI and MVVM architecture.
- Created a Java Spring Boot backend following OOP principles, including developing REST APIs to service iOS and web client, and using JPA and Hibernate to query data from Postgres.

"Mini Reddit" – Content Rating System 🜎 🎧 | Next.js, React, GraphQL, Server-Side Rendering

May 2023 - Jun 2023

- Developed a Node Express server with Apollo GraphQL middleware using TypeScript, backed by Redis and Postgres.
- Implemented the GraphQL schema and resolvers using TypeGraphQL, TypeORM and TypeScript.
- Built a server-side rendered **React** web client in **Next.is** and **TypeScript**, and used **cookies** to keep a user logged in.

"Simple Bank" – Banking Service System 🖓 | Golang, AWS, gRPC, Microservices

Apr 2023 - May 2023

- Built a CI/CD pipeline using **GitHub Actions** to run automated unit tests written in **Golang**, create **Docker** image on AWS ECR, deploy the service to Kubernetes clusters on AWS EKS, and establish a production database on AWS RDS.
- Launched Golang Gin backend with REST APIs and backed by Postgres, and used PASETO for authentication.

"Taste" – Restaurant Finder 🖓 | React Native, Mobile Application, Agile, Scrum

Oct 2022 - Dec 2022

• Collaborated with 2 developers in an Agile Scrum team to build the mobile app using React Native along with a Flask server and **Postgres**. Incorporated **Google Maps API** to display nearby recommended restaurants on a map.

"THE ONE" – Book Recommendation System 🜎 | Machine Learning, NLP, Python, D3.js

Oct 2021 - Dec 2021

- Led a team of 6 to develop a book recommender system by creating NLP models using **Python**, **sklearn**, **pandas** and **NLTK**.
- Designed frontend with interactive visualization using D3.js, JavaScript, HTML5 and CSS3 to display popular books.

"Finance Hero" – A Simple Budgeting App 🜍 | C#, .NET Application, Object-Oriented Programming

Jun 2018 - Jul 2018

- Led a team of 2 to build and design 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.

## SKILLS AND CERTIFICATIONS

Languages: Java, JavaScript, TypeScript, Go, Python, C/C++, C#, Swift, SQL, HTML/CSS

Full-stack: Spring Boot, Hibernate, .NET, Flask, React, Redux, Next.js, Node.js, Express, REST API, GraphQL, gRPC

Technologies: Docker, Kubernetes, JUnit, Maven, IntelliJ, GitHub Actions, Linux, SQL Server, Postgres, MySQL, MongoDB, Redis

Cloud: AWS Certified Solutions Architect Associate (EC2, RDS, EKS), GCP (BigQuery, Data Studio)