KEVIN CHEN (YI-CHIA CHEN)

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EDUCATION

Georgia Institute of Technology

Master of Science in Computer Science | GPA 3.5

National Cheng Kung University

Bachelor of Science in Computer Science | GPA 3.5

Aug 2021 - May 2023

Atlanta, GA

Sep 2015 - Jun 2020 Tainan, Taiwan

EXPERIENCE

AeroTract, LLC Sep 2023 - Jan 2024

Software Engineer Intern

Albany, OR

- Led the software development of a web app from scratch, streamlining the process of tuning machine learning configurations by creating frontend UI using **TypeScript** and **React**. Resulting in an annual time savings of 300+ hours for engineers.
- Designed and built REST APIs and SDKs on the backend using Python Flask, ensuring seamless integration with React client.
- Diagnosed and resolved persistent frontend challenges 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 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.

PIXNET Digital Media Corporation

Aug 2019 - Dec 2019

Taipei, Taiwan

Data Analyst Intern

• 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 🖓 🖓 | Spring Boot, JUnit, Object-Oriented Programming, iOS Development

Sep 2023 - Oct 2023

- 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.
- Engineered a secure login service, authentication and authorization using **Bcrypt**, **JWT** and Spring Security Filter.
- Designed a native iOS app that turns word definitions into flashcards using Swift, SwiftUI and MVVM architecture.

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

May 2023 - Jun 2023

- Developed a **Node.js Express** server with **Apollo GraphQL** middleware using **TypeScript**, backed by **Redis** and **Postgres**.
- Built a server-side rendered **React** web client in **Next.js** 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, Django, 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.
- Launched a website that gets responses from Python Django backend through AJAX requests using jQuery and JavaScript.

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

Full-stack: .NET, Spring Boot, Hibernate, Django, Flask, React, Redux, Next.js, Node.js, Express, REST API, GraphQL, gRPC Cloud/DB: AWS Certified Solutions Architect Associate (EC2, RDS, EKS), SQL Server, Postgres, MySQL, MongoDB, Redis Technologies: Visual Studio, Docker, Kubernetes, JUnit, Maven, IntelliJ, Jenkins, GitHub Actions, Linux, Data Structures, Algorithms