

YI-CHIA CHEN

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EXPERIENCE

Walmart Global Tech

Apr 2024 – Present

Software Engineer (Contract)

Sunnyvale, CA

- Led the feature enhancement of InHome delivery by initiating contracts between services and platforms, expanded **GraphQL** schema, and rigorously contributing to resolvers in the orchestration layer using **TypeScript**.
- Scaled Walmart's ecommerce platform by contributing to their Federated **GraphQL** service.
- Handled on-call tasks by inspecting **GraphQL** queries using Postman, monitoring dashboards and logs on **Splunk**, identifying root causes, and implementing fixes using **TypeScript**.
- Collaborated with cross-functional teams to ensure timely project delivery and successful production deployment.
- Composed project design documentation and wrote unit tests using **Jest** to achieve over 90% test coverage.
- Participated in a full Agile life-cycle of daily stand-ups, sprint review, sprint plannings, and retrospects.

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.
- Diagnosed and resolved persistent frontend challenges of an internal dashboard using **React**, **Bootstrap** and **JavaScript**.
- Designed and built **REST APIs** and SDKs on the backend using **Python Flask**, ensuring seamless integration with React client.

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

“Mini Reddit” – Content Rating System [🔗](#) [🔗](#)

- Developed an **Apollo GraphQL** server with **Node.js Express** middleware using **TypeScript**, with **Redis** for session caching and Postgres for relational data. Implemented the GraphQL schema and resolvers using TypeGraphQL and TypeORM.
- Built a server-side rendered **React** web client in **Next.js** and **TypeScript**, and used cookies to keep a user logged in.

“Word Cards” – Flashcard Maker [🔗](#) [🔗](#) [🔗](#)

- 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.
- Developed an online flashcard maker using **React Redux** in **Next.js** and **TypeScript**.
- Designed a native iOS app that turns word definitions into flashcards using **Swift**, **SwiftUI** and MVVM architecture.

“Simple Bank” – Banking Service System [🔗](#) [🔗](#)

- 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.
- Migrated the REST APIs to **gRPC** and gRPC Gateway using **Protocol Buffers**.

SKILLS & CERTIFICATIONS

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

Frameworks: Node.js, Express, React, Redux, Next.js, Django, Flask, Spring Boot

Technologies: GraphQL, REST API, Splunk, Postgres, MySQL, Redis, Docker, Kubernetes, AWS (EC2, RDS, EKS) [🔗](#)

EDUCATION

Georgia Institute of Technology

Aug 2021 – May 2023

Master of Science in Computer Science

Atlanta, GA

- Achieved over 2X speedup with SPMD parallel execution for a C++ parallel computing model HCLib, by researching Actor model for distributed asynchronous computations and built HCLib-Actor programs.

National Cheng Kung University

Sep 2015 – Jun 2020

Bachelor of Science in Computer Science

Tainan, Taiwan