KEVIN CHEN (YI-CHIA CHEN)

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

EDUCATION

Georgia Institute of Technology

Master of Science in Computer Science | GPA 3.5

Aug 2021 – May 2023 Atlanta, GA Sep 2015 – Jun 2020

National Cheng Kung University

Bachelor of Science in Computer Science | GPA 3.5

p 2015 – Jun 2020 Tainan, Taiwan

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

EXPERIENCE

AeroTract, LLC

Sep 2023 – Present

Software Engineer Intern

Albany, OR

- Developed a web app from scratch, saving engineers 300+ hours yearly by designing UIs for fine-tuning machine learning configurations using **TypeScript** and **React**. Implemented **REST APIs** and SDKs using **Python Flask**.
- Debuged and fixed long-existing frontend issues of an internal dashboard using React and Bootstrap.

Georgia Institute of Technology

Aug 2022 – Dec 2022

Graduate Research Assistant

Atlanta, GA

Taipei, Taiwan

- Achieved SPMD parallel execution using C++ parallel computing model HClib, OpenSHMEM and MPI, reducing runtime by over 50%. 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

- 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

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

Sep 2023 - Oct 2023

- Designed 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**.
- Engineered a secure login service, authentication and authorization using **Bcrypt**, **JWT** and Spring Security Filter.

"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 and TypeScript.
- Built a server-side rendered **React** web client in **Next.js** and **TypeScript**.

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

Apr 2023 – May 2023

- Built a CI/CD pipeline to automatically run unit tests written in **Golang**, 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.
- Augmented the Golang backend with gRPC and gRPC Gateway using Protocol Buffers.

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

Oct 2022 – Dec 2022

- Built cross-platform mobile app using React Native, integrating it with the Python Flask backend 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

- 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.

SKILLS

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

Fullstack: React, Redux, Next.js, Node.js, Express, SwiftUI, Gin, Flask, Spring Boot, Hibernate, REST API, GraphQL, gRPC, OAuth2 DevOps: Docker, Kubernetes, Postman, GitHub Actions CI, JUnit, Linux

Devops. Docker, Rubernetes, Fostman, Christian Actions Ci, John C. Linux

Cloud/DB: Postgres, MySQL, MongoDB, Redis, AWS (EC2, RDS, EKS) (AWS Certified Solutions Architect Associate)