KEVIN CHEN (YI-CHIA CHEN)

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SKILLS

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

Machine Learning: Keras, TensorFlow, PyTorch, sklearn, NumPy, NLTK, cv2

DevOps: JUnit, Linux, CMake, Boost, STL, GDB, Postman, Docker, Kubernetes, GitHub Actions CI **Fullstack:** Flask, Gin, Spring Boot, Hibernate, Node, Express, React, Next.js, REST API, GraphQL, gRPC

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 (GDB, x86 Assembly), Database

National Cheng Kung University

Sep 2015 - Jun 2020

Bachelor of Science in Computer Science | GPA 3.5

Tainan, Taiwan

• Coursework: Image Processing, Object Oriented Programming, 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

Atlanta. GA

Graduate Research Assistant

- 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 **BigOuery**, **Data Studio**, **Python**, **R**, and **D3.is**.
- 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.

"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.

Tagging of Thesis | Deep Learning, Natural Language Processing [github]

Dec 2019 - Jan 2020

• Trained the dataset with Neural Network models, including RoBERTa, XLNet, LSTM, and GRU, and achieved 70% F1-score on tags prediction task, using PyTorch and Simple Transformers.