

KEVIN CHEN (YI-CHIA CHEN)

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

SKILLS

Languages: Python, Go, C++, C, C#, Java, JavaScript, TypeScript **Certificate:** AWS Certified Solutions Architect Associate
Machine Learning: Keras, TensorFlow, PyTorch, sklearn, NumPy, NLTK, OpenCV
DevOps: JUnit, Maven, IntelliJ, Linux, CMake, Boost, GDB, Postman, Docker, Kubernetes, GitHub Actions CI
Fullstack: Flask, Gin, Spring Boot, Hibernate, Node, Express, React, Next.js, REST API, GraphQL, gRPC
Cloud/DB: SQL, Postgres, MySQL, MongoDB, Redis, Matillion ETL, AWS (EC2, RDS, EKS), GCP (BigQuery, Data Studio)

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 (Tableau, Spark, Scala, Databricks), Blockchain, Info Security, Algorithms

National Cheng Kung University Sep 2015 – Jun 2020
Bachelor of Science in Computer Science | GPA 3.5 Tainan, Taiwan
• **Coursework:** Image Processing, Data Mining, Probability & Statistics, Data Structures, Object Oriented Programming

EXPERIENCE

AeroTract, LLC Sep 2023 – Present
Software Engineer Intern Albany, OR
• Developed a web app from scratch for fine-tuning machine learning configurations using **TypeScript**, **React** and **Bootstrap**.
• Implemented backend APIs and SDKs using **Python Flask**, and made custom exception classes for error handling.

Georgia Institute of Technology Aug 2022 – Dec 2022
Graduate Research Assistant Atlanta, GA
• Achieved parallelism in **C++** by using the parallel computing model **HCLib** following **Object Oriented** design patterns.
• 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 **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 | *Spring Boot, Hibernate, JUnit, Object Oriented Programming* [\[github\]](#) [\[github\]](#) Sep 2023 – Oct 2023
• Created a **Java Spring Boot** backend following OOP principles, including implementing **REST APIs** to service a **Next.js** web client that turns word definitions into flashcards, and using **JPA** and **Hibernate** to query data from **Postgres**.
• Implemented a secure login service, authentication and authorization using **Bcrypt**, **JWT** and Spring Security Filter.

"Simple Bank" – Banking Service System | *Golang, AWS, gRPC, Microservices* [\[github\]](#) 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**.

"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**.