Yi-Chia "Kevin" Chen

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SKILLS

Programming:	C++, C, C#, Python, Java, JavaScript
Certifications:	AWS Certified Solutions Architect Associate (2023)
Software:	.NET, Docker, Kubernetes, SQL Server, MySQL, Unix/Linux, Git
Fullstack:	MongoDB, Express, React, React Native, Node, Flask, REST, HTML, CSS, jQuery, AJAX

EDUCATION

Georgia Institute of Technology
Master of Science in Computer Science, GPA 3.6
Aug 2021 – May 2023
Atlanta, GA

- **Coursework:** Mobile Applications, Database, Machine Learning, Data Analytics

National Cheng Kung University
Bachelor of Science in Computer Science, GPA 3.5
Sep 2015 – June 2020
Tainan, Taiwan

- **Coursework:** Object Oriented Programming, Operating Systems, Data Structures, Algorithms

WORK EXPERIENCE

Georgia Institute of Technology
Graduate Research Assistant
Aug 2022 – Dec 2022
Atlanta, GA

- Implemented message-passing programs for distributed systems using **actor model** with **C++** parallel programming library **HClib**.
- Researched HClib-Actor programs, and documented the usages of its primitive constructs.

Academia Sinica
Research Intern
July 2020 – Dec 2020
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
Data Analyst Intern
Aug 2019 – Dec 2019
Taipei, Taiwan

- Created dashboards to uncover marketing insights with **BigQuery**, **Data Studio**, **Python**, **R**, and **D3.js**.
- Automated the process of importing data from Google Sheets to **BigQuery** with **Matillion ETL** and **Python**.
- Proposed new website layouts to improve user experience and ad revenue by analyzing clickthrough rate.

KEY PROJECTS

"THE ONE" – Interactive Book Recommendation System
Fullstack Web Application, Machine Learning [github]
Oct 2021 – Dec 2021

- Launched the website that retrieved data from **Flask** backend by performing **AJAX** requests with **jQuery**.
- Designed frontend with interactive visualization to display popular books with **D3.js**.
- Preprocessed text data, and developed book recommender by creating NLP model with **Python** and **NLTK**.

"Finance Hero" – A Simple Budgeting App
.NET Framework, Windows Form Application [github]
June 2018 – July 2018

- Built and designed 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.

"Taste" – Mobile App for Finding Restaurants Based on Personal Preference
Mobile Application [github]
Oct 2022 – Dec 2022

- Built and designed the frontend with **React Native**, and developed map features with **Google Map APIs**.
- Collaborated with teammates to integrated the app with backend that conformed to **REST APIs** using **Flask** and **Postgres**.

"I Love Mining" – A Puzzle Solver
C++ Multi-Threading [github]
Mar 2022 – Apr 2022

- Implemented ABI Encoding of 256-bit unsigned integers with **Boost**, and mined coins on an Ethereum's smart contract with **C++ multi-threading**.

Air Quality Data Collection, Analysis, and Prediction from Scratch at NCKU
Data Analytics, Machine Learning [github] [CLI]
May 2019 – Sep 2019

- Presented PM 2.5 forecasts with deviation < **28%** by training **machine learning** models, including regression and time series analysis, with **Python** and **sklearn**.
- Worked in group to containerize **MongoDB** and **Flask** server with **Docker** for data storage and retrieval; collected **4-month** meteorological data using sensors paired to **Arduino**.