Yi-Chia "Kevin" Chen

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SKILLS

Programming:	Java, JavaScript, Python, C++, C, C#
Certifications:	AWS Certified Solutions Architect Associate (2023)
Software:	Docker, Kubernetes, MySQL, SQL Server, .NET, 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 (Spark, Scala, Databricks)

National Cheng Kung University
Bachelor of Science in Computer Science, GPA 3.5   Sep 2015 – June 2020 / Tainan, Taiwan
- **Coursework:** Object Oriented Programming, Computer Architecture, 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**.

"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**.

Banking Management Service System
Fullstack Web Application   Apr 2022 – May 2022
- Constructed backend that conformed to **REST APIs** using **Node.js**, and designed frontend using **React.js**.
- Created stored procedures and virtual tables to manipulate data and display stats using **MySQL**.

"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
- Won **3rd Place** in *2019 CSIE Department Research Project Competition*.
- 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**.