

# Yi-Chia “Kevin” Chen

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## KEY SKILLS

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**Languages** Solidity, Java, JavaScript, HTML, CSS, Python, SQL, Scala, R, C, C++, C#, Haskell

**Frameworks** Web3.js, D3.js, Flask, PySpark, ASP.NET

**Others** Ethereum, MySQL, MongoDB, Docker, GCP, Unix/Linux

## EDUCATION

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### Georgia Institute of Technology

Atlanta, GA

*M.S. in Computer Science*

Aug 2021 – Expected May 2023

- Relevant Courses: Blockchain & Cryptos, Data & Visual Analytics, Database Systems

### National Cheng Kung University

Tainan, Taiwan

*B.S. in Computer Science*

Sep 2015 – June 2020

- Relevant Courses: Data Structures, Algorithms, Operating Systems, Data Mining

## PROFESSIONAL EXPERIENCE

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### Institute of Information Science, Academia Sinica

Taipei, Taiwan

*Research Intern*

July 2020 – Dec 2020

- Researched Brzozowski’s derivative and parser combinators to construct context-free parser using functional programming with **Haskell**.
- Studied how to do formal verification using type systems with interactive proof assistant **Agda**.
- Built a course website for the instructor to deliver materials to **100+** undergrads with **Hakyll**.

### PIXNET Digital Media Corporation

Taipei, Taiwan

*Data Analyst Intern*

Aug 2019 – Dec 2019

- 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**.
- Presented new website layouts to improve user experience and ad revenue by analyzing clickthrough rate.

## PROJECTS

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### Banking Management Service System

- Collaborated with teammates to build a banking app that provided different access for various user roles.
- Implemented the backend that conformed to RESTful APIs using **Node.js (Express.js)**; designed responsive frontend using **React.js**.
- Developed stored procedures and views to manipulate data and display stats using **MySQL**.

### Air Quality Data Collection, Analysis, and Prediction from Scratch at NCKU

- **Award: 3rd Place** of 2019 CSIE Department Research Project Competition.
- Collaborated with teammates to host **MongoDB** and **Flask** server on **Docker** for data storage and access; collected **4-month** meteorological data using sensors paired to **Arduino**.
- Created a CLI tool for data visualization with **Python** to analyze air quality patterns.
- Developed PM 2.5 forecasts with deviation **less than 28%** by training **machine learning** models, including regression and time series analysis.

### Tagging of Thesis

- **Award: Ranked the top 25%** for the *AI CUP 2019: Artificial Intelligence Analysis and Classification of Thesis*.
- 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**.

### Finance Hero: A Simple Budgeting App

- 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.