YI-CHIA (KEVIN) CHEN

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EDUCATION

Georgia Institute of Technology   Atlanta, GA
M.S. in Computer Science   August 2021 – Expected May 2023

- Ongoing Courses: Data & Visual Analytics, Machine Learning, Software Analysis & Test, Intro to Grad Algorithms.

National Cheng Kung University   Tainan, Taiwan
B.S. in Computer Science and Information Engineering   September 2015 – June 2020

- Overall GPA 3.55/4.3 **(Last-60 GPA 4.01/4.3)**
- Awards: 3rd Place of 2019 CSIE Department Research Project Competition

WORK EXPERIENCE

Institute of Information Science, Academia Sinica   Taipei, Taiwan
Research Intern in Programming Languages and Formal Methods Lab   July 2020 – December 2020

- Researched parsing with Brzozowski's derivative and parser combinators.
- Researched program derivation problems; namely deriving solutions from their specifications using Haskell.
- Built a website for a course at the National Taiwan University using Hakyll.

PIXNET Digital Media Corporation   Taipei, Taiwan
Intern in Data Analysis Team   August 2019 – December 2019

- Analyzed data and created statistical graphics for evaluating marketing results using Python, R, and DataStudio.
- Analyzed user behavior on the mobile blogging platform, then gave suggestions for improving the website layout.
- Helped streamline the workflow of importing data from Google Sheets to BigQuery using Matillion.

SELECTED PROJECTS

My Blog: kvnyijia's Notes   November 2020 – Present
Functional Language, Web Design

- Adopted responsive web design to make the website look good on all devices.
- Used Pandoc library to make compiling markdown and LaTeX to HTML easy.

Air Quality Data Collection, Analysis, and Prediction from Scratch at NCKU   December 2018 – September 2019
Data Analysis, Data Visualization, Machine Learning

- Preprocessed 4 months of meteorological data that our team collected for the purpose of analyzing and training.
- Visualized the data using Python, then found patterns in the periodic changes of PM 2.5 and correlations between attributes.
- Used multivariate linear regression to build a prediction model for next-hour PM 2.5 forecasts with deviation (RMSE) within 4.5 $\mu g/m^3$.
- Investigated other factors that could influence air quality, then added corresponding data sourced from the Weather Bureau to the process of training in an effort to improve the model.

  KEY ACHIEVEMENT: Won 3rd Place in 2019 CSIE Department Research Project Competition.

Finance Hero: A Simple Budgeting App   June 2018
Window Programming, Object-Oriented Programming, Relational Database

- Designed a small game, using C#, to make tracking spending less tedious.
- Used Microsoft SQL Server database to store user data.

SKILLS

Programming Languages	C/C++, C#, Python, R, SQL, HTML, CSS, Haskell, Agda.
Tools	Git, Hakyll, BigQuery, DataStudio, Matillion.