# MingHao(Howard) Lee

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## Education

- **University of the Pacific** — Stockton, CA
  *Master of Engineering, Major: Computer Science* — *Jan 2022 – Dec 2023*
  - **Class**: Data Design, Algorithms, Optimization mathematics, Object-oriented programming, Web applications, Distributed, Multi-tiered systems
- **National Taiwan University** — Taipei, TW
  *Information System training program, Major: Computer Software Engineering* — *Feb 2021 – Dec 2021*
  - **Class**: Linear Programming, Algorithms, Write logical and maintainable code
- **Chihlee University of Technology** — Taipei, TW
  *Applied English* — *Feb 2015 – Dec 2020*

## Programming Skills

- **Languages**:Python, C++, JavaScript, SQL, HTML5, CSS, R **Frameworks**:AngularJS
- **Operating System**:Windows, Linux and Unix **Developer Tools:**:Git, Jupyter Notebook

## Projects

- **Advanced MIPS Processor Simulator Suite** — Jan 2023 – Jun 2023
  *GitHub: Project Demo Link*
  - **MIPS Assembly to Machine Language**: Designed a robust Python script that converts MIPS assembly code into machine language instructions.
  - **Single-Cycle MIPS Processor Simulator**: Developed and enhanced single-cycle MIPS processor simulators, providing accurate simulations of the processor's behavior and performance.
  - **Direct-Mapped and N-Way Set Associative Cache Simulation**: Created a Python program to simulate direct-mapped and n-way set associative caches. Analyzed memory access sequences using 32-bit memory addresses for 4-byte word access.
- **Analysis of Tech Layoffs and Economic Turmoil** — Jan 2023 – Jun 2023
  *GitHub: Project Demo Link*
  - **Analysis of Tech Layoffs and Economic Turmoil**: Analyzed tech layoffs and economic turmoil dataset, investigating the effects of the economic slowdown and pandemic on the tech industry.
  - **Machine Learning for Predictive Analysis**: Demonstrated proficiency in machine learning by applying linear regression to predict the value of quantitative variables, such as funds raised, based on other variables in the dataset.
  - **Data Exploration and Analysis**: Conducted comprehensive exploratory data analysis, statistical tests, and visualizations to understand the distribution of industries, relationships between variables and identify significant factors influencing layoffs.
- **Language Expression Interpreter** — Sep 2022 – May 2022
  *GitHub: Project Demo Link*
  - **Scanner Module for Stream Analysis**: Engineered an efficient scanner module capable of meticulously analyzing a continuous stream of characters, intelligently identifying, and extracting the expression to be assessed.
  - **Parser Module for Abstract Syntax Tree Construction**: Designed and implemented a parser module that transforms the processed character stream into an Abstract Syntax Tree (AST), representing the underlying code structure with precision and accuracy.
  - **Evaluator Component for Accurate and Efficient Results**: Crafted an evaluator component, ensuring optimal performance and adherence to language specifications. Effectively handled tokenization and parsing complexities to deliver accurate and efficient results.

## Experience

- **UOP, Dept of Engineering and Computer Science** — Stockton, CA
  *Teach Assistant & Academic Tutor* — *Jan 2023 - Jun 2023*
  - : Helping Undergraduate students in need with homework and project on a day-to-day basis in order for them to achieve their learning goals.
- **UOP International** — Stockton, CA
  *Student Ambassador* — *May 2022 - Presnet*
  - : Supervise and help a group of 20 international freshmen during orientation and provide peer-to-peer support.