# Kai-Chih (KC) Huang

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#### EXPERIENCE

Brilltek

Taichung, Taiwan (Remote)

June 2023 - Aug. 2023

Software Engineer Intern (Backend Engineer)

- Developed 6 production report APIs for the company's flagship Manufacturing Execution System (MES)
- Refactored the shift management API, reducing codebase by 43% and improving guery speed by 20%.
- Introduced an **Nest.js** platform to integrate internationalization (i18n) across all company projects, enabling external translators to translate directly on the web interface without accessing project code
- Automate data synchronization between the i18n platform and project repos using GitLab-CI and Bash scripts
- Fixed 5+ ad-hoc issues and bugs

## Nielsen IQ (formerly Nielsen)

Shanghai, China

Analyst

Apr. 2019 - Mar. 2020

- Created and managed project timeline, headed desk research before project kick-off; monitored data collection quality during fieldwork; conducted data analysis and delivered final report
- Participated in 10+ projects including product pre-launch test, customer segmentation, and market entry research

#### SELECTED PROJECTS

## Splitwise Clone

- Developed a fullstack bill-splitting and expense-tracking app utilizing React, Express.js, and PostgreSQL
- Designed a normalized database schema following Boyce-Codd Normal Form (BCNF) principles

# Simple Operating System

- Built a Unix-based operating system with C++ from the ground up running on an Intel x86 processor
- Architected a demand-paging virtual memory management system, with two-level paging and page fault handling
- Implemented a file system, disk driver, and kernel-level thread scheduling system

### YouTube Downloader

• Created a desktop application capable of downloading YouTube videos, with the flexibility to be compiled for multiple operating systems via **Electron** framework

#### **Banking Portal**

- Developed RESTful API and implemented MVC architectural pattern with Java Spring Boot and MySQL
- Packaged and run the service on **Docker** container

# EDUCATION\_

#### Texas A&M University

College Station, TX

Master of Computer Science, GPA: 3.8/4.0

Aug. 2022 - Present

• Coursework: Analysis of Algorithms, Operating Systems, Database Systems, Software Engineering, Network Security

## National Taiwan University

Taipei, Taiwan

Bachelor of Business Administration, major in Finance, GPA: 3.6/4.3

Sep. 2014 – June 2018

Exchange Student Program: National University of Singapore, Shanghai Jiao Tong University

#### SKILLS

**Programming Languages:** JavaScript, Java, Python, C++, Bash **Frameworks/Libraries:** Express.js, Nest.js, Spring Boot, React **Data/Tools:** MySQL, MongoDB, Docker, GitLab-CI, Git, Linux