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# Hsieh Chia Yang ( 謝家洋 )

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Currently working as a full-stack engineer in Micron data science team. Developed FAB manufacturing web systems and reports that bring huge benefits for shift teams and FAB operations, such as quality test flow improvement, manufacturing tool availability increase, cycle time improvement and so on.

## Work Experience

**Micron, Quality Engineering, Data Science Engineer** 2020 Mar - Present

Typescript (Angular) / Python / SQL / Linux / Git / MQTT

- Lead functional team to build web systems using Angular, Typescript and Python to automate manufacturing data verification and speed-up fab test flow which saved 200+ hours workload per week.
- Lead team members to take over and maintain legacy web system that has over 300 users used for daily work.
- Built REST API using Python flask that served data to the front-end web.
- Used MQTT protocol for data subscription to make web data updated passively in real-time.
- RWD development by using Bootstrap.
- Provided Defect Per Million data for each DRAM products for quality improvement.
- Integrated assembly data and sent daily email reports through outlook that can save daily routine check time about 15 min. and can have early reaction on issues handling.

**Micron, Product Integration Engineering, Data Analysis Engineer** 2017 Dec - 2020 Mar

C# / Perl / SQL / Linux

- Partner with a developer to build an internal yield analysis system using C# and Perl that is to improve product yield and saved weekly workload over 1,000 hours.
- Built data system on Linux server with design pattern concept.
- Developed auto detection tool to detect if new test program data is out of baseline, which helped to avoid 95% low yield issue caused by test program.
- Built daily system health reports and auto-recovery functions to increase 20% of system stability.
- Built FAB yield reports using Perl and HTML to summarize daily yield status for FAB daily KPI monitor.
- Cross departmental cooperation to calculate accurate weekly yield settle accounts data that related to FAB's profit.
- Migrated Inotera legacy system to Micron system.

**Inotera, Product Engineering, Advanced Methodology Development Senior Engineer** 2013 Apr - 2017 Dec

Perl / SQL / Linux

- Developed 70+ data parser and loaders using Perl to extract and integrate useful data from different databases for the data source of yield analysis system.
- Maintained ship system with huge data processes in real-time by system loading balance.
- Planed and implemented the retention mechanism of wafer data for RMA data restored.

## Side Projects

**PTT Notifier** - Python / Linux / LINE Notify

Send interesting topics/articles through LINE Notify by extracting PTT web data

**Athletic training system** - Angular / Python / Linux / GCP / MYSQL

Partner with two developers and a gym coach to build a web system that can analyze athlete's muscular power data and recommend the best training method.

## Skills

**Programming:** Python | Perl | Typescript

**Web Development:** Angular | Bootstrap | HTML5 | CSS | Apache ECharts || D3.js

**Development Skills:** RESTful API | MQTT | Git

**Database:** MySQL | MSSQL | Oracle | Snowflake

**Development Environment:** Linux (RHEL) | Windows

## Education

**Master of Science, Computer Science & Information Engineering**

National Cheng Kung University, 2009/09 ~ 2013/01

**Bachelor of Science, Computer Science & Information Engineering**

Tatung University, 2005/09 ~ 2009/09