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# Hsieh Chia Yang (謝家洋)

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## Work Experience

2020 Mar

to  
present

Micron, Quality Engineering, Data Science Engineer

- IOT projects fan-in support
  - Abnormal voice detection for tool monitor
  - Airborne Molecular Contamination monitor
    - Collaborate with U.S./Singapore members for system fan-in, and in charge of fab technical support & system maintenance

*#Python #docker #SQL #powershell*

- Back-end yield monitor reports
  - Cycle time calculation for each product from ship to BE, probe to BE
  - BE QMON (Quality Monitor) and DPM (Die Per Million) calculation for analysis
  - Extracted back-end test data and summarized for analysis

*#Python #Perl #R #Linux #FTP*

- Manufacturing web system development
  - User-centered web development as a project lead
  - Combine fab layout and data on the website for better visibility (2D map)
    - Integrated Fab drain pipeline, layout and tools
    - Integrated Qual tool and status on layout
  - Judged qual result data automatically for speed-up tool release time
  - Implemented MQTT data transmission for real-time qual tool status monitor

*#Python #SQL #Angular #Linux #MQTT*

- Side projects:
  - Ptt notify watch dog (Independent work)
    - Sent interesting topic by line notify (Python + Line Notify + Linux)
  - Personal blog website (Independent work)
    - Personal information sharing (WordPress + Linux + Apache)
  - Sport analysis website (team work)
    - Analyze user's muscular power data and recommend the best training way (Angular + Python + Linux + GCP + MySQL)

2017 Dec

to

2020 Mar

Micron, Product Integration Engineering, Data Analysis Engineer

- Map/yield analysis functions
  - Analysis tool development for yield improvement
  - Manufacturing data integration (inline -> probe -> ship -> backend)
  - Data mining functions (tool chamber correlation, metrology process analysis, ...)

*#Perl #C# #Linux #SQL*

- Auto reports development
  - Summarized yield data and sent to Yield Enhancement team/managers
  - Test Program data result variation monitor
  - FAB KPI report (probe yield, line yield, Probe To Ship yield)
  - BE burn quality data monitor

*#Perl #R #Linux #HTML #SQL*

- Cooperate with other departments/fabs for FAB yield calculation alignment
  - Make sure FAB weekly output yields are correct
  - Yield calculation alignment (make each department use the same logic for calculation)

**2013 Apr  
to  
2017 Dec**

**Inotera, Product Engineering, Advanced Methodology Development  
Senior Engineer**

- Micron ship system maintenance
  - Make sure probe/ship data quality and correctness
  - Auto recovery functions development
  - System loading balance for avoiding probe/ship data delay
  - RMA data process for users to analyze RMA wafers

*#Perl #Linux*

- Map viewer web system development
  - System architecture plan and implement
  - File data system construction
  - Data loaders for extracting inline/probe data
  - System alarm notification
  - Migrated Inotera legacy systems to micron systems

*#Perl #Linux*

## Education

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

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

- Information retrieval, Information extraction, Data mining, Machine learning

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

Tatung University, 2005/09 ~ 2009/06

## Skills:

- **Programming Language:** Perl 、Python 、Angular 、Typescript
- **Database:** Oracle 、MS SQL 、MYSQL 、Snowflake
- **Others:** Linux 、HTML 、CSS 、MQTT 、flask API 、IIS