Tsai-Yu "Marian" Chung
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Python, Shell, Git, PHP, C#, HTML, JavaScript, SQL, CSS, Java, Jira, Jenkins, Tableau
Project Management, Team Development, System Design, Communication

WORK EXPERIENCE

Senior Software Engineer - CI/CD   Mediatek.Inc ▪ July2021 - Present

- Gained customer trust by using **Oracle Database** with *Transport Layer Security(TLS)* connection and *Transparent Data Encryption(TDE)* designed by our team that I leaded.
- Designed and built up *Loading Balance Mechanism* for files processing on **Linux** to increase 500% throughput of building requests. And it can support more than 3 times concurrent requests of the previous one.
- Refactored the format of request and response data and source code of *REST API* that web service was built up by **Workerman(PHP)**, and backend was build up by **Python** to improved operation flexibility and code flexibility that decrease 70% maintenance and development effort.
- Found, understood and acted on data. Did data preprocessing using *Jieba* to do segment and opencc to convert characters from simplified Chinese to traditional Chinese, and trained model to predict the form categories user filled to avoid assigning to wrong customer service staff and waste extra effort on reassigning.

Software Engineer - CI/CD   Mediatek.Inc ▪ Jan. 2019 - Jun. 2021

- Discussed and identified customer requirements of generating and managing confidential data in **MYSQL** and **Oracle Database** and designed the system based on them. I leaded the team to build up website which was **ASP.NET(C#)** *MVC* website and *RESTful web service* with **Python** and **Shell**.
- Decreased 70% execution time of building and verifying changes that would like to push to upstream's **Gerrit** server which was integrated by specific sync mechanism, auto build system and auto test system.

Software Engineer - CI/CD   Mediatek.Inc (Dispatched Worker) ▪ Sep. 2018 - Jan. 2019

- Developed the automated service of migrating git projects by manifest to reduce 100% human effort. And it pushed large files to *Git LFS* to not stored large files in **Git**.
- Developed verification mechanism for Gerrit Migration in order to make sure target data was the same as source data without any human effort.

Quality Assurance Engineer   Mediatek.Inc (Dispatched Worker) ▪ Sep. 2017 - Sep. 2018

- Ensure the quality of the released software and prevent errors in the system before users find them.
- Developed automated testing application using *Selenium* with **Python** for web application.

Data Engineer   Institute for Information Industry (Intern) ▪ Jul. 2016 - Aug. 2016

- Designed and developed web crawler for PTT and using Facebook's graph api to get fanpages's data to analyze user behaviors.

Quality Assurance Engineer   Kway.com (Intern) Jul. 2014 - Aug. 2014

- Verified the APP of CTBC Bank's online banking to understand the importance of quality assurance.

LEADERSHIP AND AWARD

Lead the technical direction, review design and report project progress regularly to manager.

Assist manager in spending less time on manpower planning.

Earned recognition for system quality, releasing on time, not afraid to take on challenges.

EDUCATION

Soochow University, MS in Computer Science and Information Management   Graduated at Aug 2017

Excelled in *Analysis of Algorithms*, *Business Intelligence*, *Database System* and *Network Marketing*.

Journal: Case Study of Fake Web Reviews.

ASONAM '17 Proceedings of the 2017 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining 2017(Pages 706-709).

Soochow University, Computer Science and Information Management   Graduated at Aug 2016

MORE ABOUT ME

Like to understand customer needs and thinking about solutions.

Enjoy different roles and be responsible for every jobs, such as team lead, project lead, developer, service owner, database owner.