TONY TSAI

Software Engineer | Portfolio | Linkedin | | GitHub | k667621@gmail.com | 979-888-3420 | San Francisco, CA

EDUCATION

MSc in Computer Engineering | **Texas A&M University** | **4.0 GPA**   USA, Jan 2020 - Nov 2021
-   Machine Learning, Artificial Intelligence, SQL for Data Analysis, Web Development, Distributed System & Cloud Computing

BSc in Chemical Engineering | **National Cheng Kung University**   Taiwan, Sep 2010 - Jul 2014
-   Introduction of Computer Science, Data Structure, Analysis of Algorithms, Object Oriented Design(OOD)

SKILLS

-   Programming: Python, Java, JavaScript, C#, C++, Kotlin, Scala, Golang, HTML, CSS
-   Frameworks: **FrontEnd:** React.js, Vue.js   **BackEnd:** Django, Flask, Node.js, Spring, Ruby on Rails
-   Database: **SQL:** MySQL, PostgreSQL   **NoSQL:** MongoDB, Redis, Memcached
-   Tosol: **Testing:** Jenkins, PyTest, GitLab, Travis CI   **Others:** Docker, Selenium, Linux, LaTeX

EXPERIENCE

UMC, **Software Engineer - Processing**   Taiwan, Aug 2016 – Nov 2019
Python, Django, PostgreSQL
-   Developed an auto wafer dispatch system by using **Python** with 20+ users that shaped core features based on user behavioral patterns; increased user-task efficiency by 50%
-   Collaborated with the engineering team to create a web app by **Django** and design a visualization feature to help users make informed and efficient decisions to improve product's yield rate
-   Used **Oracle database system** to store all the exposure equipment's log information and create an analysis tool to identify the best process parameters in order to enhance process window in lithography module
-   Fine-tuned **SEM** image recognition system to auto detect defects on the wafers; decrease miss operation rate by 30%

PROJECT

Tracking System, Team Project - GitHub   Feb 2020 – May 2020
Python, Django, MySQL
-   Developed a tracking system for CS department staff members to record students' profiles via **Django**
-   Adapted **Agile** development style and successfully achieved all the customer requirements
-   Deployed a production web on **Google App Engine** in conjunction with **MySQL** in Ubuntu environment
-   Implemented Cloud Drive, CSV Parser, and **User Authentication** based on customer feedback

Face Recognition App, Personal Project - GitHub   Feb 2020 – Jun 2020
Node.js, React.js, PostgreSQL
-   Applied **Clarifai** face detection API to locate the human faces of an image link uploaded by users
-   Completed the frontend with **React.js** to display an interactive UI in reusable components manner
-   Employed **Express.js** and **PostgreSQL** to serve the backend and followed **RESTful API** design pattern

Mails Sending App, Personal Project - GitHub   May 2020 – Aug 2020
Node.js, React.js, MongoDB
-   Built an auto mail web app integrated **Google OAuth2.0** login API and **Stripe** credit payment system
-   Used Passport.js & MongoDB to set an OAuth login system and get login status via **cookie-session**
-   Linked up **SendGrid** service and collected recipient feedback via WebHook mail click bottom
-   Applied **Redux** package to simplify frontend web app's state management system

GitHub Social App, Personal Project - GitHub   Aug 2020 – Sep 2020
Node.js, React.js, MongoDB
-   Created a Full Stack social platform for developers to interact with other's GitHub profiles
-   Applied asynchronous programming to fetch information from GitHub API by using GitHub access token
-   Built a back-end server through **Node.js** and connected it to **MongoDB** to store user's personal profiles
-   At the front-end, utilized **React Hooks** to manage function component's states