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 2020

- Machine Learning, Artificial Intelligence, SQL for Data Analysis, Web Development, Distributed System & Cloud Computing

MSc in Chemical Engineering | National Cheng Kung University

Taiwan, Sep 2020 - 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

Tools: Testing: Jenkins, PyTest, GitLab 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