

Chien-Cheng Aaron Lai

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EDUCATION

Georgia Institute of Technology, GA Master of Computer Science	Expected Aug 2022 GPA: 4.00/4.00
Rice University, TX Master of Chemical and Biomolecular Engineering	Graduated Dec 2018 GPA: 3.46/4.00
National Cheng Kung University, Taiwan Bachelor of Chemical Engineering	Graduated Jun 2015

SKILLS

Programming & Language	Python, C/C++, Java, JavaScript, MySQL, JSON, R, MATLAB, HTML5/CSS
Framework & Tools	Git, Docker, Flask, NodeJS, React, Redux, Stripe, GCP

PROJECTS

Email Survey Website <ul style="list-style-type: none">Developed a web that user can send bunch emails to collect feedbacks using NodeJS with React and Redux.Developed backend to handle tabulation feedbacks using Express and MongoDB.Implement website payment using Stripe and user sign-up with Google OAuth.	Oct 2021 - Nov 2021
Job Offer Comparison Application <ul style="list-style-type: none">Designed the application flow and defined all APIs by UML.Developed backend logics to processed user data and product information using Java.Designed and integrated UI frontend interface (GUI) using Android Studio.	Aug 2021 - Nov 2021
Multi-Threaded gRPC and Distributed File Systems (DFS) <ul style="list-style-type: none">Designed and implemented a distributed file system using C++ gRPC and Protocol Buffer.Implemented multiple threads to manage gRPC asynchronous callbacks and requests.	May 2021 - Jul 2021
Shared Memory-Based Inter-Process Communication (IPC) <ul style="list-style-type: none">Implemented a cache server to communicate with a proxy server by POSIX share memory API.Utilized semaphores for file transfer and message queues for server communication.	May 2021 - Jul 2021
Sales Report System Web Service <ul style="list-style-type: none">Designed the database schema by the EER-Relational Mapping and implement it with MySQLDeveloped backend logics to process data from database using python Flask.Created frontend interface to visualize analytical reports with HTML/CSS and Bootstrap.	Jan 2021 - May 2021
SuppliesMapForCov19 <ul style="list-style-type: none">Developed a map website that users can offer and request supplies on Google Map using Flask, HTML/CSS/JS, Google Map JavaScript API, GCP Firestore, GCP App Engine.	Mar 2019
Computer Vision <ul style="list-style-type: none">Built SIFT and SURF detecting features algorithm to matching visual objects for image transformation and deformation using MATLAB.	Jan 2018 - May 2018

WORK EXPERIENCE

Formosa Plastics Corp., Testengeer, Inc. Chemical Engineer <ul style="list-style-type: none">Developed functions to control instrument testing bias and variance for XRD, FIIR, DSC, HPLC.Developed functions to re-login the samples with multiple duplicate information and save 50% re-login time.Visualized and analyzed testing data in Total Quality Management Systems database using NumPy and Pandas.	Mar 2019 - Present
Applied Optoelectronics, Inc. Engineering Intern <ul style="list-style-type: none">Developed functions to track product process, testing data, and instrument information by Microsoft SQL Server.Developed functions to analyzed testing results of failure devices and overdue work orders.	Jun 2018 - Aug 2018