Chiche Tsai

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EDUCATION

Georgia Institute of Technology — Atlanta, GA
B.S. in Computer Science, Thread: intelligence, info internetworks, GPA: 4.0/4.0 — *Jan 2020 – Present*

Purdue University — West Lafayette, IN
B.S. in Computer Science, GPA: 4.0/4.0 — *Jan 2019 – Dec 2019*
Minor in Mathematics

PROGRAMMING SKILLS

Languages: Assembly, Bash, C, C++, CSS, HTML, JavaScript, Java, Python, Swift

Skills: React, Node.js, RESTful API, Nginx, Docker, Kubernetes, MySQL, MS SQL Server, MongoDB

Tools: Linux, Jenkins, Circle CI, Azure, AWS, Git, Jira, Bitbucket, NPM, Postman

EXPERIENCE

Course Critique — Atlanta, GA
GT SGA - IT Board — *July 2021 – Present*

- Developed single-page web application for GaTech students to search overall GPA and grade distribution by course or professors with integration of Rate My Professors. (React)
- Developed a web crawler to collect course data from OSCAR and develop RESTful APIs. (Python, AWS S3, MySQL)

3drens — Taipei, Taiwan
Software Engineering Intern — *Aug 2020 – July 2021*

- Developed single-page web application for the content management system (CMS) of the ride-hailing service and its payment center. (React, Material UI, Sass, Bootstrap, Nginx, Docker)
- Improved SEO of the ride-hailing service official website by periodically updating sitemap for dynamic sites and rendering JavaScript sites as a static HMTL to serve search engine crawlers. (Linux cron, Prerender.io)
- Designed and developed token-based authentication RESTful API for the payment center. (Node.js, Express, Sequelize, MS SQL, Docker)

Continuous Analysis of Many CAMeras Project (CAM2) — West Lafayette, IN
Research Assistant in Embedded System Team, Advisor: Professor Yung-Hsiang Lu — *Aug 2019 – Dec 2019*

- Developed multi-task neural networks (SSD and MobileNet) running on embedded systems to achieve face detection and demographics classifications.
- Encrypted facial pixel data within cameras to prevent unauthorized use.

PROJECTS

Twitter Sentiment Analysis

- Applied logistic regression, SVM, and Naïve Bayes classification to recognize the sentiment of tweets and track the sentimental trend during COVID-19 pandemic. (Python)

EPICS ISBVI (Indiana School for the Blind and Visually Impaired)

- Developed a magnifier iOS application allowing visually impaired students to have the ability to read things that they normally find difficult to read. (Swift)
- Implemented text recognition feature with CoreML machine learning model.

Campus Food Truck Project

- Built an application that customers and admins can check/manage information of food trucks on campus. (Java, JavaFx)
- Managed the underlying data with SQL database including menu, order history, and user and food truck information. (MySQL)