

Chiche Tsai

Mobile: (916) 907-4936 | Email: chichets@gatech.edu | Website: chichetsai.com/

EDUCATION

Georgia Institute of Technology	Atlanta, GA
<i>B.S. in Computer Science, Concentration: Intelligence and Info Internetworks, Cumulative GPA: 4.0/4.0</i>	Jan 2020 - Dec 2022
Purdue University	West Lafayette, IN
<i>B.S. in Computer Science Honors, Cumulative GPA: 4.0/4.0</i>	Jan 2019 - Dec 2019

EXPERIENCE

Course Critique Web App	Atlanta, GA
<i>GT Student Government Association - Information Technology Board</i>	July 2021 - Present
<ul style="list-style-type: none">Collaborate with a team of 6 people to build a web app with 3,000 daily users where Georgia Tech students can search overall GPA and grade distribution by courses/professors (React, Bootstrap, Material-UI, Recharts, Victory)Build a web crawler to scrape ten-thousands of students' reviews from CIOs (Selenium, Scrapy, Amazon RDS, AWS Lambda)	
3drens Startup	Taipei, Taiwan
<i>Software Engineering Intern</i>	Aug 2020 - July 2021
<ul style="list-style-type: none">Constructed an internal master app of a ridesharing service, Yoxi, utilized by over 300 system operators and call center agents (React, Material-UI, Redux, Bootstrap, SCSS)Cooperated with two CTOs to develop payment APIs with token-based authentication used by over 25,000 users (Node, Express.js, Typescript, Sequelize ORM, Microsoft SQL Server, JSON Web Token)Boosted 20% traffic of the ridesharing website by helping search engines perfectly crawl writing a Linux shell script to periodically update sitemap for newest web pages and prerender JavaScript sites as a static HTML (SEO, Cron Job)Increased unit test coverage from 10% to 70% on both client and server side to enhance code reliability (Mocha, Chai, Enzyme)Dockerized React app with Nginx for reverse proxy and utilized Kubernetes to orchestrate the deployment, scaling and management of containers on Azure Kubernetes Service (load balance, microservice)Applied Bitbucket and Jira for version control, CircleCI for CI/CD pipeline, and daily scrum meetings for Agile practices	

PROJECTS

Proctor Creek Capstone Project	Aug 2021
<ul style="list-style-type: none">Devised a reporting system that tracks environmental pollution with Proctor Creek in Atlanta (React, Material-UI, Django, Firebase, GitHub, ZenHub, Jenkins)Implemented a notification system to notify users when report status is updated (SMTP)	
Twitter Sentiment Analysis	July 2020
<ul style="list-style-type: none">Implemented 4 machine learning models for classifying/clustering the sentiment of tweets to track the sentimental trend during the COVID-19 pandemic and obtained an accuracy of 83% on average (Python, Scikit-learn)Leveraged logistic regression, SVM and Naïve Bayes for supervised learning, and k-means for unsupervised learning	
Campus Food Truck App Development	Jan 2020
<ul style="list-style-type: none">Built a web application that manages food truck information on campus (Vue, Vuetify, Spring Boot, MySQL)	
Indiana School for the Blind and Visually Impaired (ISBVI)	Sep 2019
<ul style="list-style-type: none">Created a magnifier iOS app to improve the visibility of visually impaired students in ISBVI (Swift, CocoaPods)Implemented a text recognition feature using vision and CoreML model and obtained an average accuracy 86%	

RESEARCH

Prolonged Collective Sensing System (PECSS)	Atlanta, GA
<i>Research Assistant, Advisor: Professor Rosa I. Arriaga</i>	Aug 2021 - Present
<ul style="list-style-type: none">Develop a Clinician-Facing Visualization Dashboard for the NSF funded project which aims to enhance clinical practices by leveraging data-driven approaches to build a computational toolkit for PTSD patients and clinicians (Angular, Angular Material)	

INTERESTS / SKILLS

Interests: Full Stack Development, Infrastructure, Human-Computer Interaction, Machine Learning, Natural Language Processing
Languages: Assembly, C, C++, CSS, HTML, Java, JavaScript, Python, Swift
Skills/Tools: Angular, React, Vue, Typescript, Redux, Django, Spring Boot, Node, Nginx, Docker, Kubernetes, MS SQL Server, MySQL, MongoDB, Firebase, Redis, AWS, Azure, Circle CI, Jenkins, Git, Linux, NPM, Postman, LaTeX