

# "Claire" Yun-Ting Chiou

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## **EDUCATION**

### **Bachelor of Science in Chemical Engineering**

Sept. 2017 – June 2021

*National Taiwan University (NTU)*

Taipei, Taiwan

- Relevant Courses: Computer Programming, Python and Its Applications, Calculus, Intermediate Numerical Methods, Engineering Mathematics

### **Credit Program**

Nov. 2022 – Mar. 2023

*University of the People*

Online

- Relevant Courses: Programming Fundamentals, Programming 1, College Algebra

### **Credit Program**

Sept. 2021 – Jan. 2022

*National Taipei University of Technology*

Taipei, Taiwan

- Relevant Courses: Data Structures

## **PROFESSIONAL EXPERIENCE**

### **iOS Engineer**

Aug. 2022 – Present

*Good Finance Securities*

Taipei, Taiwan

- Designing, enforcing, and upholding the VIPER software architectural pattern in Swift across a substantial codebase to enhance maintainability, resulting in a 20% reduction in collaborator's development time through heightened iterative agility and reduced coupling between components.
- Effectuated the digitalization of the securities account opening process for iOS by encompassing end-to-end development of all features related to 27 user stories, fostering seamless synergy with backend engineers, providing strategic input on database and API design, and cooperating with the UX team to refine user experiences all within an eight-month timeline.
- Applying Amplitude Analytics and Firebase Crashlytics to gain insight into app performance and customer digital journeys, proactively addressing user events, and promptly resolving production issues.

### **iOS Developer**

Jan. 2022 – July 2022

*AppWorks School*

Taipei, Taiwan

- Autonomously conceived and developed a personal project "Lightening" from the ground up in five weeks with the Agile methodology. Implemented weekly releases on TestFlight, culminating in the successful publication of the app on the App Store.
- Enhanced cross-platform capabilities and synchronization through dynamic collaboration with Front-End and Back-End team counterparts; Collaborated closely with fellow iOS developers, actively contributing to a shared codebase, and placed strong emphasis on Git version control using GitHub.

### **Internship**

Jan. 2020 – Feb. 2020

*ProphetStor Data Services*

Taichung, Taiwan

- Utilized the GERU tool to execute thorough SAAS income templates providing simulations to precisely quantify potential revenue, profit margins, and lead generation strategies across two distinct traffic sources, enabling the company to query predicted results and make data-driven decisions.
- Widely collected and deeply analyzed data using Excel to generate in-depth analytical forms for marketing strategies, annual budget expenditures, and product pricing analysis.

### **Undergraduate Research**

July 2019 – June 2020

*Biomedical and Tissue Engineering Laboratory*

Taipei, Taiwan

- Engaged in a series of experiments comprising hair preprocessing, secondary extraction, purification, quantitative assessment, and qualitative analysis to investigate the feasibility and potential applications for isolating keratin-associated proteins and keratin from human hair.
- Gathered data and conducted a detailed SWOT analysis for the lab's experimental product, affirming its market potential and guiding informed decision-making and risk mitigation measures.

## **PORTFOLIO**

### **Lightening** (GitHub link: [github.com/clairefantastic/Lightening](https://github.com/clairefantastic/Lightening))

2022

- Developed an innovative sound-based application with the mission of enhancing global accessibility by facilitating low-latency video calls and audio sharing with WebRTC and AVFoundation in Swift, bridging the gap between visually impaired individuals and sighted volunteers.
- Meticulously designed and managed data sources utilizing Firebase infrastructure to ensure robust data handling for substantial data volumes in video and audio communication.
- Committed to user-centered design by crafting two user flows for enhanced accessibility: a streamlined interface for the visually impaired and a flexible one for volunteers, ensuring intuitive navigation and efficient content access for all users.

### **STYLISH**

2022

- Accomplished a powerful C2C E-Commerce App with complete user flow in three weeks.
- Attained offline trolley data storage through the integration of CoreData database in Swift; Established a real-time chatroom and carried out trolley data synchronization by leveraging the Socket.IO technology, significantly enhancing the overall user experience in the shopping process.

## **COMPETITIONS**

### **Involvement Recognition** (intramural competition sponsored by Dr. Terry Chern)

2020

*Songboi Excellent Chemical Product Development Competition*

- Introduced a groundbreaking approach of extracting keratin from hair to create adhesive patches for expediting wound healing.

### **Honorable Mention** (intercollegiate competition sponsored by Taiwan Cement Corporation)

2019

*Taiwan Cement Corporation Circular Economy Proposal Competition*

- Proposed a pioneering solution for harnessing surplus heat to enhance swine feeding operations in one week, aiming to tackle industrial waste heat challenges.

## **CERTIFICATES**

### **Computer Organization and Assembly Language Programming**, ASU CareerCatalyst

2023

### **Algorithms (I)**, Princeton University, Coursera

2023

### **Introduction to Python Programming**, UPenn, Coursera

2023

### **Data Analysis Using Python**, UPenn, Coursera

2023

### **Introduction to Java and Object-Oriented Programming**, UPenn, Coursera

2023

## **LEADERSHIP EXPERIENCE**

### **Social Media Team Lead**

July 2019 – Aug. 2020

*Gourmet Report and Media Strategy Research Club, NTU*

Taipei, Taiwan

- Chaired a food-sharing platform with a dedicated following of 23,000 individuals on Instagram, produced an analysis report on the relationship among crucial indicators, including reach and engagement, solved the pain points with content enhancements that resulted in a remarkable 3,000 follower increase within 90 days.
- Spearheaded a campus-wide food map voting event. Strategically constructed a Python-based vote statistical system including modules like Numpy and Pandas to process over 1,000 votes. This system transitioned our approach from a hybrid of Excel and manual calculations to a fully automated process.

## **VOLUNTEERING**

### **Market Team Member**

Oct. 2018 – Mar. 2019

*Green Collar Agricultural Market, NTU*

Taipei, Taiwan

- Coordinated with 60 local small-scale farmers and vendors practicing environmentally-friendly cultivation to organize a two-day green market which attracted 10,000 daily attendees; Aided farmers in promoting eco-friendliness and sustainable utilization, while opening dialogue between producers and consumers.

## **SKILLS**

Programming Languages: Swift, Python, Java, HTML, CSS, JavaScript, React JS, Fortran, C++, Kotlin

Software development Tools: Git, GitHub, GitLab, Swagger, Postman, Firebase, PlantUML