Tien Yu Lin

https://xcc.tw

Email : trusaidlin@gmail.com

Mobile : +886-972-350-007

EDUCATION

- **National Taipei University of Technology** — Taipei, Taiwan
  Electrical Engineering and Computer Science; GPA: 3.29 — *Sep. 2019 – Jun. 2023*

EXPERIENCE

- **LINE Taiwan** — Taipei, Taiwan
  Software Engineer Intern — *Jul 2021 - Present*
  - **LINE SHOPPING App**: Join **scrum** development team and develop a **clean-architecture**-based app using **Flutter**. Strengthened the drag feature of the history bar widget through the **calculation** of the plane coordinate system. Develop new features of Double Eleven Shopping Festival, connecting the **GraphQL** API and solving Bugs, making revenue significantly **improved** compared to previous years. Analyze the **redirection** process of web pages and solve the problem of repeating browsing in the **In-App-Browser**. Assist the project for **Null Safety** Migration. Provide internal file improvement methods to shorten the adaptation period of newcomers.
  - **LINE Official Account verification system**: **Lead** the team members to develop a back-end system based on **Golang**. Formulate **gRPC** Schemas for microservices. Applied **clean architecture** into the project to make the architecture clear and easy to understand. **Cross-country** development with colleagues in Vietnam, to meet, discuss, and write technical documents in English. Study and learn to deploy the system to **Kubernetes** Cluster, and then monitor and manage using such as **ArgoCD**, and **Grafana**. Created a **cronjob** to clean the database.
  - **LINE Android App**: Improved and refactored the test sample apps for sub-modules in the LINE Android App. Study Android **AIDL** & **IPC** to pass the necessary information between different apps.
  - **LINE SDK Android**: Refactored the sample app in LINE SDK Android which is based on the **Kotlin** language and **Jetpack Compose**. Updated the public technical document of LINE SDK Android to illustrate the use of the new version of the sample App.

PROJECTS

- **TAT App**: **Lead** the development of a **cross-platform** app for teachers and students. It allows students to quickly check course timetables, grades, calendars, and other functions. The **most-used** campus app in NTUT with **20K+** downloads and **10k+** daily active users. Integrate the concept of **clean architecture** into the project for refactoring. Developed a feature that helps students **automatically** finish their roll-call online. Performed **Null Safety** migrations and upgraded the Flutter version from 1 to 3. Analyzed the login process of the campus back-end system, **re-implemented** the function of **user login**, and repair the problem that cannot be successfully logged in and cannot see the course timetables offline. Released **7** official versions, including API bug fixes, UI/UX optimization.
- **BaBaIsYou**: Re-implemented an existing **rule-customizable** game using **object-oriented** concepts such as **observer**, **builder**, **singleton**, **strategy**, **composite** patterns, and **SOLID** principles, which is based on **TypeScript Vue 3** and **PixiJS**. Co-worked with team members to build a **collision detection** mechanism among game characters from scratch, and a **parser** that can convert Json files into level map configurations. Deployed on **https://baba.ntut.club**
- **PVS - Project Visualize System**: Served as a **scrum master** and carried out task **planning**, task **breakdown**, **story point** estimation, **retrospective**, formulate **User Story** & **test cases**, flowchart drawing, software **architecture** design, **document** organization, etc. Hashing user passwords by **Argon2id**. Review PRs.
- **Puppy Sponsor**: Created a smart contract based on **EIP-20** and deployed it to the Ropsten test network. Published **fungible** tokens to reward users who donate **Ethereum** to a puppy charity. Developed **Web3** DApp with **EtherJS**.

ACTIVITIES

- **Speaker of LINE Taiwan TECHPULSE 2022**:
  Shared **why** joined LINE as an intern in my junior year and the new **skills** learned at work.
- **LINE Taiwan Internal Hackathon 2022**:
  Created a Web3 application with the team, won the **third** place and the **best popularity** award.
- **Volunteer of Students' Information Technology Conference (SITCON) 2019 - 2022**:
  Actively participate in information technology community activities.
- **Google Developer Student Clubs (GDSC)**:
  Be a **core team member** of NTUT, participate in **hackathon** preparations, and serve as a course **TA**.

Languages: TypeScript, Go, C++, Python, Java, Kotlin, Rust, Dart, SQL

Technologies: Vue, React, Flutter, Android, gRPC, Docker, CI/CD, Git, Linux(Fundamental)