

As a seasoned R&D Engineer with over two years of experience in the software industry, I have honed my skills in cooperative software development, product research, and implementation. My expertise in collaborative software development under Linux systems, coupled with my proficiency in tracing, analyzing, and presenting open-source projects, positions me to make a significant contribution to your esteemed organization. With a B.S. and a Master's degree in Computer Science from National Taiwan University, I am well-equipped with a strong foundation to navigate and overcome professional challenges. I am eager to leverage my skillset and academic background to drive success in a forward-thinking company.

WORK EXPERIENCE

Taisys

Nov., 2021 - Now

(In the team developing GameFi for other companies)

Taipei, Taiwan

R&D Software Engineer

- Automated Data Handling and Notification System
 - Developed a Docker container deployed on Google Kubernetes Engine (GKE) for robust data handling.
 - Implemented a system to store incoming data into a PostgreSQL database, ensuring efficient data management.
 - Engineered a cron job that dispatched events to Pub/Sub, providing real-time notifications to subscribers.
 - Utilized mail services to notify subscribers about relevant events, improving user engagement and experience.
- Smart contract and decentralized application (DApp) development.
 - Developed, tested, and launched Solidity smart contracts using Hardhat (NodeJs) and designed demo Dapps utilizing React (JavaScript).
 - Created API servers with the gin-gonic (Golang web framework), integrated with MySQL for efficient data management.
 - Customized and deployed open-source blockchain projects such as Omni/Tokenbridge, ProjectOpenSea/seadrop and Gnosis/MultiSigWallet to meet specific company needs, enhancing overall system effectiveness.
 - Conducted comprehensive analysis of open-source codes using sequence diagrams and class diagrams to identify areas of improvement.
 - Authored detailed documentation complemented with JavaScript demo code, facilitating knowledge sharing and collaboration among diverse engineering teams.
 - Developed and managed smart contracts, integrating features such as ERC20, ERC721, Ownable, Accessible, Upgradeable, etc., enhancing system functionality.
- Stress test our own consortium chain (Quorum)
 - Undertook rigorous testing of TPS and latency under various gas consumption scenarios using Python multithreading, ensuring optimal system performance.
 - Visualized analytical results using matplotlib, supporting data-driven decision-making.

HTC DeepQ

Apr., 2019 - May., 2020

(Department of HTC which mainly focus on deep learning and medical care)

New Taipei, Taiwan

Contractor (R&D)

- Adopted and implemented MedRec, a paper published by Stanford University, prototype on Ethereum private chain in a group of five people.

SKILLS

- **Programming Languages:** Python, C/C++, Java, Solidity, Golang, JavaScript, Sell Script and Matlab
 - **Version Control:** Experienced in using Git for code version control, including commands such as commit, stash, tag, merge, etc.
 - **Code Analysis & Refactoring:** Demonstrated ability in tracing, analyzing, and refactoring code in an object-oriented manner with a deep understanding of design patterns.
 - **Command Line Interface (CLI):** Skilled in developing within a full command line interface environment.
 - **Cloud Computing:** Experienced in Google Cloud Platform products including Cloud SQL, IAM, Secret Key Manager, and GKE.
 - **Containerization & Orchestration:** Familiarity with using Docker and Kubernetes for building and managing target images.
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EDUCATION

National Taiwan University

- **Master in Networking and Multimedia** Sep., 2018 - Jan., 2021
Publication: Taipei, Taiwan
 - View-base Federated Byzantine Agreement System for Environmental Blockchain (BRAINS Jul., 2021)
 - **B.S. in Computer Science and Information Engineering** Sep., 2014 - Jun., 2018
Publications: Taipei, Taiwan
 - Applying Blockchain to an Automated Clearinghouse System (TANET Oct., 2017)
 - Governance on the Drug Supply Chain via Gcoin Blockchain (IJERPH May., 2018)
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Languages

- **Mandarin:** native
- **English:** fluent
- **Japanese:** intermediate (with a JLPT N2 certification)