Ting-Sheng (Leo) Lin / *Software Engineer*

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA   **Aug 2019 – Expected May 2022**
Master of Entertainment Technology

National Chiao Tung University, Hsinchu, Taiwan   **Sep 2012 – Jul 2016**
Bachelor of Science, Computer Science

Relevant Courses: Machine Learning, Artificial Intelligence, Database Systems, Data Structures, Algorithms, Operating Systems

EXPERIENCE

Software Engineer at Taiwan AI Labs, Taipei, Taiwan   **Jun 2020 – May 2021**
Distributed Task Crawler Systems
- Built crawler systems to collect target data from different social networks for AI model training.
  (Python, Flask, MySQL, Selenium, Beautiful Soup, Git)
- Improved the stability and the developing efficiency by constructing CI/CD environment and dockerizing the applications. *(Gitlab CI/CD, Docker, K8S)*
- Boosted 15 times the productivity of the data collecting and massively enhanced the user experience by importing distributed task queue to flexibly schedule and asynchronously consume diverse tasks. *(Celery, Redis, RabbitMQ)*

Software Engineer at SparkAmplify (American-funded), Taipei, Taiwan   **May 2018 – May 2019**
Brand-Media AI-matching Platform
- Developed RESTful APIs to communicate with the database and users in the platform that provides the best-matched media information for brand customers and vice versa.
  (Node.js, Express.js, Sequelize, MongoDB, Git, Google Analytics, Google Tag Manager, AWS: Lambda, S3)
- Enhanced scalability and maintainability of the application by applying the Dependency Inversion Principle and breaking functionalities into cloud microservices.
  (Python, Node.js, GCP: Cloud Function, AWS: Lambda, SES, S3, SQS)

Internal Outreach Web Application
- Accelerated the efficiency of the weekly outreach task to 5 times by integrating complex manual processes into an internal web application and automating the outreach campaign creation.
  (PHP, Laravel, MySQL, MongoDB, Redis, Vue.js, SendGrid API)

Auto Notification Email Service
- Stimulated customer return rate by implementing a monitoring service to send corresponding notification emails to new users depending on different circumstances. *(Python, SendGrid API, MySQL, AWS: Lambda)*

Tech Lead of Social Media Side Project   **Jun 2019 – Jul 2019**
Simple Twitter (Demo: https://bit.ly/3wCOu1H Website: https:/bit.ly/2RN29RZ Code: https://bit.ly/38WAaVt)
- Directed two software engineers to design and implement a social network platform modeled on Twitter.
  (Node.js, Express.js, Git, Handlebars, Bootstrap, MySQL, Heroku, GitHub, Trello)

PROJECTS

Blockchain Online Course   **Aug 2021**
Blockchain Smart Contract   (Contract: https://bit.ly/387YMvX Code: https://bit.ly/3ke4Qsl)
- Deployed smart contract on Ropsten Ethereum, a blockchain test network. *(Solidity, MetaMask)*

Carnegie Mellon University   **Jan 2020 – May 2020**
Interactive Installation of a Fashion Exhibition, team of 5 people   (Website: https://bit.ly/3ebYhC2)
- Designed and created an interactive installation on the topic of wearable technologies for a fashion exhibition in the Children's Museum of Pittsburgh (PA, USA). *(Arduino, C++, Unity, C#)*

National Chiao Tung University   **Sep 2015 – Dec 2015**
Motion-sensing Game, team of 3 people   (Demo: https://bit.ly/2UlyyAN Code: https://bit.ly/31f3l3n)
- Implemented a motion-sensing side-scrolling game. *(Kinect2 SDK, C#)*
- Exhibited it in the Talent Cultivation Program for Smart Living held by the *National Ministry of Education*.

SKILLS

Programming Languages	Python, JavaScript, PHP, C++, C#, C, SQL, HTML, CSS, Java, Verilog
Web Frameworks	Node.js, Express.js, Vue.js, Laravel (PHP), Flask
Tools & Platforms	K8S, Docker, Celery, Git, AWS, GCP, MongoDB, MySQL, SendGrid, Bootstrap