Tianyang Liu

+86 15927397575 | til040@ucsd.edu | linkedin.com/in/tianyangliu-whu-ucsd

EDUCATION

University of California, San Diego — San Diego, CA
Master of Science in Computer Science and Engineering — *Sep 2022 – Jun 2024*

Wuhan University — Wuhan, China
Bachelor of Engineering in Software Engineering with GPA 3.8/4.0 — *Sep 2018 – June 2022*

EXPERIENCE

Undergraduate Research Assistant — Sep 2020 – Present
Institute of Intelligent Software and Services, Wuhan University — *Wuhan, China*
- Conducted research on *On-demand Evolution of Mobile Apps Based on Crowdsourced User Feedback*
- Crawled user reviews and changelogs in app store with **BeautifulSoup**, processed data with **NLTK**, trained word vector models with **Word2Vec**, and trained machine learning models with **TensorFlow** for data filtering and classification
- Researched whether developers consider user reviews when updating apps and the timeliness of the responses
- Explored the architecture decisions in AI-based system development from the practitioners' perspective

Research Assistant — Apr. 2022 – present
Wuhan University — *Wuhan China*
- Automatic localization of tonsils based on head CT

Research Intern — Jul. 2021 – Aug. 2021
Nanyang Technological University — *Singapore*
- Assisted the professors in applying **Pattern Recognition techniques** along with **Convolutional Neural Networks** to identify active cases of Covid-19 based on CT scans

PROJECTS

Legal Aid App | *Java, Vue, Spring Boot, RESTful API, MyBatis-Plus, MySQL, Redis* — Apr 2021 – Sep. 2021
- Developed a mobile application for rural people in China to give comprehensive, fast and convenient legal advice and assistance.
- Developed a full-stack mobile application with **Spring Boot** as the beckend and **Vue** as the frontend
- Applied **RESTful API** interface specification, **MySQL** for data storing, **MyBatis-Plus** for accessing database and **Redis** for data caching.

Short Video App | *Python, Android Studio, Django, ORMapping, MySQL* — Jun. 2020 – Sep 2020
- Developed a short video app for students in Wuhan University to share great moments in their campus life
- Developed a application with **Android Studio** as the frontend and **Django** as the backend
- Applied **MySQL** for data storing, **ORMapping** for accessing database

PUBULICATION

- Chong Wang, **Tianyang Liu** (co-first author), Peng Liang, Maya Daneva, Marten van Sinderen. *The Role of User Reviews in App Updates: A Preliminary Investigation on App Release Notes.* APSEC 2021

- **Tianyang Liu**, Chong Wang (co-first author), Peng Liang. *Do developers Care about User Feedback? Exploring the Effects of User Reviews on App Updates in Release Notes.* Pending Submission to KBS

- Zhang Beiqi, **Tianyang Liu**, Peng Liang, Chong Wang, Mojtaba Shahin. *Architectural Decisions for AI-based System Development: The Practitioners' Perspective.* Submitted to ESEM 2022

TECHNICAL SKILLS

Languages: Java, Python, SQL
Frameworks: Spring Boot, Django
Developer Tools:PyCharm, IntelliJ IDEA, Visual Studio, Spyder
Libraries: pandas, NumPy, Matplotlib, scikit-learn, TensorFlow, PyTorch, nltk