Long Ling

Soochow University – Suzhou, China

☐ +86 18261902240 • ✉ lucyling0224@gmail.com • ⌂ lucyling24

Education

Soochow University **2019.09 - Present**
Suzhou, China

- Bachelor of Computer Science and Technology
- GPA: **3.8/4 (top5%)**
- Courses: Advanced Mathematics (95), C++ Programming (98), Probability and Statistics (92), Algorithm Design (92),Linear Algebra (91)

Internship

ByteDance Ads Infra - ML Infra **2022.10 - 2023.04**
FE Engineer Intern, serving as a developer for multiple platforms. *Hangzhou, China*

- Maintained **a total of 8 advertising platforms**, of which **3 were independently developed from scratch**, supporting advertising materials management, data mining, sample modeling, feature engineering, etc.
- **Collaborated across teams** to complete overall project planning, used **Figma** for website design, and used **React + TypeScript** for development work.
- **Highlight**: web online compiler and file management for advertising recall scripts, **lineage diagrams** for advertising features and samples, **tag management** for advertising materials.

Microsoft M365 **2022.07 - 2022.10**
Software Engineer Intern, optimizing the monitoring platform. *Suzhou, China*

- Utilized tools and the visualization panel to **identify solutions for reducing latency**. The front-end used **React class components**, the back-end used **.NET + C#**, and the database was **Microsoft SQL Server**.
- **Embedded time logger tool** to monitor web latency and success rate of APIs, then **added a visualization panel** to display the collected data. Therefore, identified issues related to re-rendering and long request times for chart data.
- **Highlight**: by optimizing component lifecycles, **reduced rendering latency by 20%**. To address the issue of long request times, **broke down the request** and **incorporated a loading bar** into chart components to enhance the user experience.

Microsoft M365 **2021.07 - 2021.10**
Software Engineer Intern, assisting in the construction of various basic services. *Suzhou, China*

- Improved XAM ARM deployment template diagnostic process. A script was written based on the algorithm for determining consistency, **displaying the differences between various templates**.
- **Adopted the Bot Framework SDK**, **added custom components** to chat robot that provide self-service solutions for developers. **Embedded the chat robot in Teams**, allowing developers to quickly obtain the required monitoring email information through Teams conversations.

Research Experience

Center for Digital Innovation, Tongji University **2022.12 - Present**
Advisor: Xiaohua Sun *Shanghai, China*

- Responsible for paper and technical research, product visualization, and website development.
- **Project 1: Digital-twin System Enabled Deep Brain Stimulation Surgeries.** Implemented the system, including modeling the brain nuclei with Unity, embedding the React web page with Webgl, and achieving bidirectional communication between React and Webgl.
- **Project 2: Doctor Digital Human Remote Diagnosis System.** Participated in preliminary paper research and digital human design, and conducted research and implementation on the degree of simulation of real person actions and facial expressions in digital humans.

Publication

Statistics Is Much More Powerful Than Murder Hornet   **2021.05**

Haiguang Wang, Tianlun Yi, and **Long Ling**. 2021. Statistics Is Much More Powerful Than Murder Hornet: —A Statistical Method to Predict the Spread of Vespa mandarinia. In 2021 2nd International Conference on Artificial Intelligence and Information Systems (ICAIIS 2021). Association for Computing Machinery, New York, NY, USA, Article 173, 1–8. https://doi.org/10.1145/3469213.3470380

Selected Projects

Youyou Self-discipline App   **Spring 2022**

○ The "Youyou Self-discipline" WeChat mini program is **a check-in software that leverages the psychological basis of gaming addiction to promote self-discipline**. Upon completing a custom task on the check-in page, users are rewarded with a game ticket to enhance motivation.

○ In the team, I mainly put forward this idea and completed front-end development by **WeChat developer tools**.

○ This project was **selected as the best project** in the software engineering course.

"Worry Free" Intelligent Rescue System for Lost Elderly   **Fall 2021**

○ The "Worry Free" Intelligent Rescue System helps rescue teams find lost elderly people, **including a collaborative rescue APP**, **a family report WeChat mini program**, and **a unified management website**.

○ I independently developed the system, adopting **WeChat developer tools** and **JavaScript + html** to develop the client, and using **Spring MVC framework** for the backend.

○ This project won the **Third Prize in National Computer Design Competition**.

Activities

Student Advisor for Software Engineering Class 2021   **2021.09 – 2022.08**
○ Selected to assist in advising undergraduate students learning Python and Math cources.

Minister of Computer Science and Technology Association in SCST   **2019.09 – 2021.06**
○ Planned and organized multiple events, including puzzle solving marathons and programming competitions.

Teaching Assistant for Game theory Course   **2019.09 – 2019.12**
○ Assisted in the teaching of game theory and organize Q&A sessions after class.

Selected Honors and Awards

○ Academic Excellence Scholarship in Soochow University (**Top 4%**)
○ Special Scholarship for Social Work(**Selected 10 in 159**)
○ Academic Pacesetter in Turing Class(**Top 3%**)
○ Mathematical Contest In Modeling - Meritorious Winner(**Top 7.5%**)
○ National Computer Design Competition (**Third Prize**)

Skills

○ **Language Skills**: Mandarin(Native), English(Fluent, CET-6)
○ **Tools**: Figma, React, .NET, Spring MVC, Unity, MySQL, WeChat SDK
○ **Programming Language**: HTML+CSS, JavaScript, TypeScript, C++, Python, Java, Verilog