

Letian(Elliot) Li

Tongji University
School of Software Engineering
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Education

(Admitted) Tsinghua University

MA.Sc. in Data Science and Information Technology

Shenzhen, China

Sept. 2024 – July. 2027

Tongji University

B.Eng. in Software Engineering, **GPA:92.51/100 (Ranked: 13/203, Top 6.4%)**

Shanghai, China

Sept. 2019 – July. 2024

- **Honors and Awards:** National Scholarship(**Top 1%**)
- **Relevant Coursework:**
 - * **Data Structure: (A) Computer Algorithm : (A) Practical Mathematical Modeling : (A)**
 - * **Calculus: (A) Linear Algebra : (A) Probability and Mathematical Statistics : (A)**
 - * **Database Principles and Applications: (A) Software Architecture and Design Patterns : (A)**
- **Highlight:** Strong programming skills, won a silver medal in the ICPC regional contest

Skills

- **English Proficiency:** CET-6 : 542
- **Programming Proficiency:** CCF-CSP : 340 (Top 1.48 %)
- **Programming Languages:** (C, C++, Python, Java, C#, Swift, JS/TS, SQL)

Selected Awards and Honors

- **2020 National Scholarship:** Top 1%
- **2021,2022 First-class Scholarship:** Top 5%
- **2020 Silver Medal in ICPC Asia Regional Contest Jinan Site :** (International Collegiate Programming Contest)
- **2021 Gold Medal and Best Software in IGEM:** (International Genetically Engineered Machine Competition)
- **2021 Second Prize of Shanghai Area in CUMCM :** (China Undergraduate Mathematical Contest in Modeling)
- **2022 First Prize of Shanghai Area in ICST:** (IEEE International Contest on Software Testing)
- **2023 Winner of Apple WWDC23 Swift Student Challenge:** (Apple Worldwide Developers Conference)

Research Experience

Tongji-MIT City Science Lab@College of Design and Innovation, Tongji University

Research Intern, Advisor: Prof. Yongqi Lou

Shanghai, China

Dec 2022 - Apr 2023

- **Green Commute:** - Web3-based green transportation incentive solution. Developed a mobile computing solution to identify user travel behavior and built a cross-platform application and smart contracts using Web3 technologies.

AIops Lab@School of Software Engineering, Tongji University

Research Intern, Advisor: Prof. Qingfeng Du

Shanghai, China

Sept 2022 - Jan 2023

- **Cloud-native System Monitoring and Anomaly Detection:** Contributed to the development of a cloud-native microservice-based system monitoring platform and implemented the DeepLog anomaly detection algorithm based on log analysis.

Atmospheric and Oceanic Lab@School of Software Engineering, Tongji University

Research Intern, Advisor: Prof. Shijin Yuan

Shanghai, China

Apr 2021 - Mar 2022

- **Typhoon Intensity Prediction using Remote Sensing Images:** Participated in a project to develop a typhoon intensity classification model based on remote sensing images. Built a classification model using CNN and LSTM networks.

Industrial Experience

SAP

Quality Assurance Intern

Shanghai, China

June 2022 - Apr 2023

- **Test Case Design:** Designed comprehensive behavior-driven test cases to cover all possible scenarios and ensure the quality of the software under development.
- **System and Integration Testing:** Responsible for developing mobile native UI automation test scripts for Android and iOS applications and backend API automation test scripts. Identified issues and vulnerabilities in the applications using various testing methods and ensured proper integration of the automation test scripts into continuous integration.

Selected Projects

- **Visual Fourier Series:** - *Visualization of Fourier series.* Developed an iOS application that demonstrates how different 2D shapes can be represented as the sum of sine and cosine waves. Implemented stroke extraction using edge detection models and 2D skeleton extraction algorithms with Apple Pencil and camera data collection. Led the development of the entire app.
- **You Are What You Eat:** - *Full-stack intelligent catering information management system.* Led a team as Scrum Master to develop a full-stack catering management system with front-end and back-end separation. Primarily responsible for personnel management and attendance module development. Used technologies such as casdoor authentication framework, React.js (Next.js), .NET, and databases including Redis and Oracle.
- **StyleLens:** - *Code refactoring plugin.* Developed a VSCode extension using the OpenAI API to facilitate code refactoring and help developers improve the quality and readability of their code. Responsible for the development of the entire plugin.
- **Monopoly:** - *Windows desktop 2D Monopoly game.* Led a team to develop a classic 2D Monopoly game using the Cocos2d-x game engine.
- **Draughts:** - *Checkers AI based on heuristic algorithms.* Implemented a checkers AI using primary variation search and Alpha-Beta pruning on a Min-Max tree. Explored the application of heuristic algorithms in board games by implementing multiple algorithms on the Min-Max tree.

Leaderships

- **Tongji IBM Club:** President, *Sept 2022 - now*
- **Tongji Open Source Association:** President, *Sept 2020 - now*