

XINYI ZHOU

Graduate Student · Computer Science

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Education

University of Southern California

Master of Science in Computer Science (General)

January 2023 – Present

Los Angeles, United States

Southern University of Science and Technology

Bachelor of Engineering in Computer Science and Technology

September 2018 – July 2022

Shenzhen, China

Relevant Coursework

- Data Structures
- Algorithm Design and Analysis
- Computer Networks
- Operating Systems
- Computer Organization
- Principles of Database Systems
- Deep Learning
- Software Engineering
- C/C++ Program Design
- Object-oriented Analysis and Design
- Testing in WebAssembly Ecosystem: From Development to Deployment (Spring 2023 at USC)
- Analysis of Algorithms (Spring 2023 at USC)

Experience

Southern University of Science and Technology's School of Design

Research Assistant of Dr. Luo Tao

August 2022 – December 2022

Shenzhen, Guangdong

- Individually developed Virtual Reality demos using Unity for HoloLens2 and Meta's Oculus Quest2 for experiments.
- Engaged in designing user-based HCI experiments to test the efficiency and user satisfaction level towards our new Virtual Reality user interfaces.
- Developed scripts for user data analysis using Python.
- Assisted in the collation and analysis of semi-structured interviews about IxDL language's application in industry.

Shenzhen Weijie Technology

Front-End Developer Intern

March 2022 – June 2022

Shenzhen, Guangdong

- Assisted in the development of the front end of a WeChat mini application for iOS/Android using Vue.js and the UniApp framework.
- Collaborated with team members using version control systems such as Git to organize modifications and assign tasks.
- Utilized WeXin DevTools as a development environment in order to visualize the application.

Southern University of Science and Technology

Undergraduate Student advised by Dr. Liu Jiang

September 2019 – June 2022

Shenzhen, Guangdong

- Conducted research projects related to Intelligent Medical Imaging and published a first-author paper.
- Applied successfully for the funding of National College Students' Innovative Entrepreneurial Training Plan Program (Grant No.202114325010) as the primary investigator.
- Worked as the student teaching assistant for two courses: *Introduction to Artificial Intelligence (2021)* and *Multimedia Information Processing (2022)*.

Publication

Xinyi Zhou, Louying Hao, Qiushi Nie, Yingquan Zhou, Lihui Wang, Yan Hu*, Jiang Liu, A Novel Multi-focus Fusion Network for Retinal Microsurgery, *IEEE International Symposium on Biomedical Imaging (ISBI) 2022*

Projects

JsonPath Code Contribution | Java Developer

February 2021 – May 2021

- Conducted reverse engineering to understand the components of the project.
- Fixed two reported issues that passed the code review, the solutions were merged into the next release version.
- Pull Requests: <https://github.com/json-path/JsonPath/pull/711>, <https://github.com/json-path/JsonPath/pull/693>

Color Correction WeChat Mini Program | Developer, Project Manager

February 2021 – May 2021

- Designed and implemented the UI to demonstrate the difficulties that color-blind people face in recognizing objects.
- Developed a high-speed algorithm for color space conversion to generate images that demonstrate how color-blind people see the world.

Game Platform Website | Front-end Developer

September 2020 – December 2020

- Designed and implemented the UI of a website acting as a platform for game demonstration, downloading, and commenting using Vue.js.

Epidemiological Analysis of COVID-19 cases in Korea | *Data Analyst***April 2020 – June 2020**

- Visualized the distribution of patients, spread of disease geographically to understand the development of the pandemic.
- Classified Korean cities by epidemic risks of their population through KMeans to provide insights for control measures.
- Predicted patients' recovery time and epidemic trend with regression analysis and the SIR Model for Spread of Disease.

Wheelchair Acceleration Device for Elder People | *User Research, Material Engineer***June 2019-July 2019**

- Conducted user research through field trips to nursing houses and questionnaires to understand elder's needs and opinions for present wheelchairs and determine the product scope.
- Selected the suitable materials for implementing the device to ensure user safety and comfort.
- Presented a usable demo that can be easily attached to wheelchair for acceleration and unloaded to recharge.
- Won the Best Team Work Award in Da Vinci Challenge Camp 2019.

Honors

Outstanding Graduate Student Award**June 2022***Southern University of Science and Technology***The First Class (Top 5%) of Merit Student Scholarship****Oct 2021***Southern University of Science and Technology***Technical Skills**

Languages: Python, C#, HTML/CSS, JavaScript, Java, C++, SQL**Developer Tools:** VS Code, Visual Studio, Jupyter Notebook, IntelliJ IDEA, PyCharm**Technologies/Frameworks:** Vue.js, UniApp, Unity, PyTorch, GitHub