Yifan (Evan) Shu

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Education

University of California Los Angeles (UCLA)— M.S Electrical and Computer Engineering

Summary

- Well versed in all stages of Software Development Life Cycle including requirement analysis, design, development, testing, deployment and support.
- Experienced with various methodologies such as Test Driven Development (TDD), Sprints, and Agile / SCRUM methodologies.
- Product support, debugging field issues and product enhancement experience.
- Expert knowledge of and experience in Object Oriented Design and programming concepts.
- Strong knowledge base on JSE concept like Multi-Threading, Collection and Exceptional handling.
- Experience in working on various python packages such as NumPy, Matplotlib, cvxpy, Tensorflow and more technologies.
- Excellent Experience on various integrated IDE's or code editors such as Visual Studio, Visual Studio Code, PyCharm, Eclipse and Android Studio.
- Hands on experience with version control tools such as Git and GitHub.
- Team player with exceptional planning and execution skills coupled with a systematic approach and quick adaptability.

Professional Experience

Leshi Internet Information and Technology Corp.- *Software Intern*

- Optimized an intelligent system for managing the company servers via POCO C++ library. Managed large amount of servers at the same time by maintaining a priority queue of waiting threads and implementing a Priority Scheduler to handle priority inversion.
- Developing an Android application for Leshi Television controller. Using UDP protocol to establish the connection between the television and the phone.

Berkley Human Assistive Robotic Technologies (HART) Lab- *Undergraduate Researcher*

- Developed an open-source automated segmentation framework to segment the skeletal muscle of the human arm. Programmed via Python framework Simple-ITK.
- Realizing by turning the segmentation problem into a registration problem, which can be solved by designing a cost function and using optimization methods to get the result.

Beijing Institute of Technology Computer Vision Lab- *Undergraduate Researcher*

- Designed an automatic algorithm based on the Hungarian Matching algorithm and Hausdorff distance to evaluate performance of the registration of a retinal image pair.
- Published a conference paper titled "*An Improved Automatic Method for Evaluation Retinal Image Registration".*

Relevant Projects

Live Announcement System- *Technologies used: JAVA, Android Studio*

- Adopted multi-thread design to enlarge the capacity of the system for growing demand of users.
- Designed a live announcement system to make communication between students and teachers more effective. Teachers were able to make announcements on their tablets and send messages to specific students.

Time Management Android App- *Technologies used: JAVA, Android Studio*

- Designed an Android app that records the running time of other applications. Once too much time has been spent on a specific app, the program would lock it, to help users focus on their work.

Languages

- Java
- Python
- MATLAB
- C#
- C
- C++

Technologies

- Git
- Tensorflow
- OpenCV
- JSON
- VS Code
- ROS
- Android Studio

Knowledge

- Design Patterns
- OOP
- Data Structures & Algorithms
- Agile Development
- Software Testing
- Machine Learning
- Artificial Intelligence
- Computer Vision

Awards

- Meritorious Winner (Top 15%) in Interdisciplinary Contest in Modeling, awarded by COMAP
- 2nd prize of Outstand Student Award by Beijing Institute of Technology