

Yinxue(Yolanda) Xiao

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10947 Ophir Drive, Los Angeles, California 90024

Education

University of California, Los Angeles

Expected Jun 2019

B.S. in Computer Science | GPA: 3.59

Professional Skills

- *Languages:* C++ | Java | Python | Matlab | C | MySQL | Javascript | HTML5/CSS3
- *Technologies:* React Native | OpenGL | Unity | Sketch | Photoshop | Lightroom | Solidworks

Experience

Center for Vision, Cognition, Learning, and Autonomy

Sep 2017 - Present

Research Assistant

- Worked on a 3D scene understanding project which parses 2D images and transform them into 3D objects
- Used off-screen mesa to render 3D models in multiple directions for the scene parsing process
- Computed depth, segmentation and normal map for models and views in order to perform 3D scene reconstruction

NIH BD2K Center of Excellence in Biomedical Computing at UCLA

Jan 2017 - Sep 2017

Software Engineering Intern

- Applied Machine Learning and Natural Language Processing techniques to extract metadata such as funding info from research papers in PDF format
- Used Spring and Restful API to build web interface for PDF input and JSON output
- Visualized data in javascript and d3 to create an easily accessible user platform

Bruin Mobile, UCLA Student Media

Dec 2016 - Sep 2017

Android Developer

- Built a UCLA Maps app providing detailed navigation, dining and parking information in Android and IOS
- Used React-native tools to implement interactive map and explore user interface
- Produced a ranking system for 750 locations around UCLA from trending search data in python

Computer Graphics Lab, National Taiwan University of Science and Technology

Jun 2016 - Jul 2016

Research Assistant

- Used Unity game engine to design and implement platformer and casino games
- Teamed up with graduate lab members to construct a casino game for a client

Projects

Alberta stroke program early CT score (ASPECT) Automation Project

Apr 2017- Jun 2017

- Implemented a Matlab program to score CT images automatically using image processing and Machine Learning
- Applied co-registration on brain images in both 3D and 2D context, used SVM to classify the brain regions

Searching for Extraterrestrial Life (SETI) Research Project

Apr 2017- Jun 2017

- Used techniques such as Fast Fourier Transform to process and visualize signals captured by Green Bank Telescope
- Developed program using python-sql for users to access the SQL database easily to perform data analysis

Image Mosaic program

Apr 2017

- Implemented three levels of image panorama including translational, affine and projective mosaic
- Used point correspondence, warping and image stitching to generate new image

Film Analysis Based On Color

Dec 2016 - Feb 2017

- Developed movie analysis algorithm in C++ to evaluate overall color scheme
- Analyzed individual images through application of k-means in OpenCV to find five most prominent colors