

Zhenyang Chao

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Career Objective: Software Development Engineer

Available: from **Dec 2018**

EDUCATION

University of California, Santa Cruz

Santa Cruz, CA

-MS candidate in Computer Engineering, Current GPA: 3.81/4.00

Expected: December 2018

-Related Courses: Analysis Algorithms, Programming Language, Computer Architecture, Computer Vision, Information Theory, Computer Networks

Nanjing University, China

Nanjing, China

-Bachelor of Physics

Sept 2012–June 2016

WORK EXPERIENCE

Mearview Inc.

Santa Clara, CA

Software Development Engineer(Internship)

June 2017–Sept 2017

-Took full participation in IOS AR application development

-Tested several feature detecting and matching algorithms including ORB, SIFT, Brute-Force Matching, etc.

-Modified ORB for markless 3D tracking. The overall tracking accuracy increased 50% by nearly same tracking time.

-Placed 3D model onto the plane and calculated its real-time position when camera moved or rotated.

-Ported the codes into IOS device. Real-time tracking speed was up to 30fps on iphone6.

-Languages: C++ & Objective-C

PROJECTS

Implementation of distributed hash table(DHT)

Santa Cruz, CA

-Designed the structure of DHT and builded its hash functions

Oct 2017–Dec 2017

-Implemented DHT in local area network design

-Languages: C++

The Translator Programming Language: Morphling

Santa Cruz, CA

-Designed a new language named “Morphling”.

Jan 2017–Apr 2017

-Implemented this language with a translator to parse the codes to AST and automatically generate new codes written by other existing programming languages, including Java, C++, Python and Haskell.

-Languages: Python & Java

3D World Reconstruction

Santa Cruz, CA

-Created algorithms to build plane-sweeping stereo form a pair of pictures.

Oct 2016–Dec 2016

-Acquired depth of points from two or more relevant pictures and reconstructed 3D world from 2D pictures.

-Language: C++

SKILLS & ABILITIES

Proficient in C/C++, Python and Java; familiar with data structures; familiar with Linux

Excellent in Mathematics (got 1st place in National High School Mathematics Competition)

Analytical, communicative and cooperative