

ZEYU ZHANG

ABOUT ME

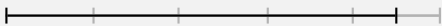
Zeyu is a first-year graduate student (M.S.) at UCLA majoring in Computer Science. He is a passionate and self-taught programmer. He is always excited to learn new technologies and use them into work.

CONTACTS

Phone (310) 923-2348
Email zeyuz@outlook.com
GitHub @TooSchoolForCool

SKILLS

C/C++



Python



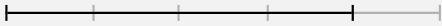
SQL



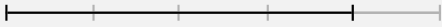
Linux



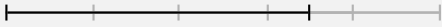
Git



ROS



Opencv



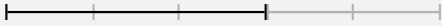
MIPS



Shell Script



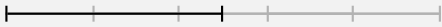
L^AT_EX



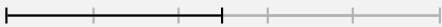
Java



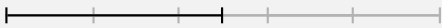
Javascript



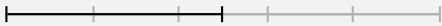
HTML



Node.js



Angular2



EDUCATION

University of California, Los Angeles

M.S. Computer Science | GPA: 4.00/4.00 | Expected Jun. 2019

Arizona State University

Exchange Student | GPA: 4.00/4.00 | Sep 2015 - Jun. 2016

Hunan University

B.S. Computer Science | GPA: 4.29/4.50 | Rank 1/107 | Sep. 2013 - Jul. 2017

PROJECTS

Sound Source Localization for Robot in Complex Indoor Environment

C++ | Python | ROS | SSL | Active Learning | Online Learning June. 2018 - Present

- Implemented basic drivers for Parallax Eddie Robot in ROS, and implemented the whole navigation stack for the Eddie robot.
- Implemented a voice engine which handles data from the microphone array, resamples signal data, and performs voice activity detection (VAD).
- Designed an auto-encoder to extract implicit features from acoustic signals.
- Implemented an online learning model which combines implicit acoustic features and room structure knowledge to enable the robot performing sound source localization task.

Biomedical Named Entity Recognition (NER) System

Python | CRF | NLP Jan. 2018 - April. 2018

- Implemented a Conditional Random Field (CRF) based biomedical Named Entity Recognition (NER) system in clinical text of electronic health records.
- Implemented CRF model with linguistic and domain-specific features (e.g., Unified Medical Language System (UMLS) embeddings) for named entity recognition and labeling.

Collaborative Online Judge System

Angular2 | Express | Redis | MongoDB | Docker | Nginx Oct. 2017 - Dec. 2017

- Implemented a web-based collaborative code editor which supports multiple user editing their code simultaneously
- Designed and developed a single-page web application for coding problems
- Built a user-code executor service which can build and execute user's code

Advanced Driver Assistance System

C++ | Opencv | FPGA | SVN Oct. 2016 - Jun. 2017

- Developed an Advanced Driver Assistance System (ADAS), which runs in a dual-core ARM processor integrated with FPGA, with a group of 20+ people
- Implemented Lucas-Kanade Optical Flow algorithm and a SIFT-feature tracking point extractor for object tracking.
- Implemented a cascaded Adaboost classifier and a gaussian-kernel SVM for pedestrian & vehicle detection with C++ and Opencv library, which enabled the vision component of ADAS recognizing locations of potential cars and pedestrians in a video sequences

Autonomous Navigating Car

C | C++ | Embedded System Programming Jan. 2016 - May. 2016

- Built an autonomously navigating and obstacle avoiding car, which can automatically find a path to a certain point based on GPS, LIDAR and IMU
- Designed and implemented a control system based on PID which handled motor, servo and all sensor modules (i.e, LIDAR, GPS, gyroscopes, accelerometers, magnetometers)

AWARDS

ASU Dean's List Certificate (2016 Spring)	May. 2016
ASU Dean's List Certificate (2015 Fall)	Dec. 2015
National Scholarship (top 2%), the Ministry of Education of the P.R.China	Oct. 2015
National Scholarship (top 2%), the Ministry of Education of the P.R.China	Oct. 2014