

Zhijun Xue

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EDUCATION

UC San Diego – *Computer Science & Engineering Dept.*

Oct. 2020 – 2022(Expected)

- Master of Science in Computer Science
- Actively seeking for 2021 summer internship opportunities with UCSD Summer Cooperative Education Program support

Huazhong University of Science & Technology - *Electronic Information & Communication Dept.*

Sept. 2016 – Jun. 2020

- Bachelor of Engineering in Electronic and Information Major GPA: **3.86/4.0**
- **Core Courses:** Database Application & Practice, Operating System, High Performance Computing, Data Mining, Machine Learning

Skills

Languages: C/C++, Python, JavaScript, TypeScript, GO, SQL, HTML, CSS

Tool/Library: Linux, Git, CMake, Redis, Angular, JQuery, Selenium, PyTorch, Pandas, QT, OpenCV3

Work Experience

Intel – NSG Data Science Group

Dalian DMTM

Software Engineer Intern

May. 2020 – present

- Cooperated with automation engineers, process engineers to develop Intel web-based Data Analysis platform for PE and PI
- Designed and implemented a large scale lot & wafer issue-tracking system using Angular, Echarts and Django
- Developed Redis-based caching service to enhance data fetching efficiency with easy-to-use api to accommodate all group apps

University of Alberta – ANCL Lab

Edmonton, CA

Research Assistant

Jun. 2019 – Nov. 2019

- Code: [GitHub](#) Paper: [ICUAS.pdf](#) Demo: [Youtube](#)
- Implemented vision-based experimental platform for Quadrotor Visual Servoing based on open-source firmware PX4 and ROS
- Conducted line detection on Nvidia Jetson TX 2 platform and used MAVLink protocol to communicate between onboard hardware

Selected Projects

[Intelligent voice-control Assisting Robot](#)

Imperial College London

Technology Stack: PyTorch, Arduino, OpenCV

Jun. 2018 – Aug. 2018

- **Project Introduction:** Integrated speech recognition, image recognition and grabbing algorithms into single Arduino robotic arm. User can control the robot with oral instructions to fetch them food or drink
- Implemented real-time object tracking algorithm based on YOLO-V3 using PyTorch and ONNX
- Led 6 teammates won the “First Runner-up” prize in the “Innovative Robotics Design” competition

Team Manager

HUST, China

Technology Stack: Angular, GO, TypeScript, MySQL

- **Project Introduction:** Light-weight team manage system, integrate task flow management, team documents, file sharing, Milestone features in one place
- Modularized design with user-friendly configuration dashboard. Complete separation of frontend and backend implementation

Spider Man

HUST, China

Technology Stack: Selenium, Celery, Multiprocessing, PyTorch

Sept. 2018 – Dec. 2018

- **Project Introduction:** Distributed crawling system to achieve data acquisition and data analysis objectives in one-stop.
- Each spider worker can make multiple-threaded requests to the URL pool and save parsed contents to local storage
- Analyze main trends of netizen opinions as time flows with deep learning approaches(e.g. TextLSTM)

Competitions & Activities

ICDAR 2019 Scene-Text Recognition Contest

Mar. 2019 – May. 2019

- Designed algorithm for generating large scale Chinese Character synthetic text images dataset (80k images)
- Achieved 4 Championships in character recognition, text line recognition, end-to-end text spotting contests [Results](#)

Student Union – Chairman of Association for Science & Technology

Apr. 2018 – June 2019

- Organized Hackthon; Conducted Coding & Deep Learning undergraduate seminars (Total **200+** participants)
- Built [EIC BBS forum](#); co-developed [Public room reservation system](#) with Node.js as backend