

Tianchen Wang

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OBJECTIVE

Looking for a Software Engineer Internship in 2020 Summer

EDUCATION

University of California, Los Angeles

Master of Science, Computer Science

Sep 2019 – Expected May 2021

Macao Polytechnic Institute

Bachelor of Science in Computing

Sep 2015 – June 2019

GPA: 3.68/4, Rank: #1

SKILLS

Programming Language: Java, Python, C, C++, JavaScript, HTML, CSS, SQL, PHP, C#

Technologies: OpenCV, Yolov3, Servlet, JSP, JDBC

Tools: Eclipse, Android Studio, TensorFlow, Unity 3D, PyCharm, Git, Linux, Vim, MySQL, Visual Studio

PROJECTS

Portable Crowd Counting System Based on Thermal Camera (Python, C/C++, Linux)

- Developed an entire system that can collect thermal and regular images, detect and count the number of humans inside the vision of thermal camera
- Implemented hardware with Raspberry Pi and Lepton FLIR dev kit
- Implemented software which can detect humans and count the crowd number by C++
- Implemented counting function by reforming Yolov3 object detection system and achieved accuracy of 91.2%
- Processed raw data collected from thermal camera and transformed it into thermal and ironbow view by OpenCV and Python
- Applying Chinese National Patent and implementing real-time detection and tracking

Online Shopping Mall (JSP, Servlet, Java, MySQL, Tomcat8.5)

- Developed and deployed an online shopping web application for customers to search and order products on demand, and for retailers to display and label their products
- Implemented the front end with jQuery and Ajax, back end with Java Servlet and JSP deployed in Tomcat 8.5 web server, user interface with CSS

Android Simply Chatting Room (Android Studio, Java, Google gRPC)

- Developed an Android App that allow multiple users to chat in a share chatting room app based on Google gRPC framework
- Implemented WeChat-like user interface, text bubble and whisper function
- Implemented back end server that stores user information, receives and broadcasts test messages

PROFESSIONAL EXPERIENCE

Participant of 2018 China Pan-Delta+ Competition

- Developed a multi-sensor air monitoring system
- Implemented hardware with multiple sensor, rechargeable power, WIFI module and UDOO Neo
- Implemented a private website which shows different real-time air quality indicators and trend chart based on time period
- Deployed database in Cloud with Amazon Web Service (AWS)
- Won the First Prize and the Most Practical Prize