

联系方式

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(LinkedIn)

热门技能

Python

C++

Java

Languages

Chinese

English (Limited Working)

Publications

RGB-D image-based pose
estimation with Monte Carlo
localization

Hao Qin

Software Engineer at Cloudian Inc
San Mateo, California

个人简介

2+ years industry experiences.

Solid Background in Web Service Development and Software Development, Distributed System, Algorithm, Data Structure, CNN, Robot Algorithm and Computer Science Fundamentals. The fields I am interested cover Software Development, Web development, Robotics, Deep Learning.

2+ years PHP hands-on experience, 4+ years Java using experience with Spring, 1+ years front-end development experiences with ReactJS, JQuery, and Canvas.

2+ years experience in robot localization and mapping with C++ and Python. 2 papers published.

CNN and it's related field for image matching and object detection

C++, Python, Java, Redis, MySQL, HTML, Canvas, CSS, JavaScript, ReactJS, VueJS, NodeJS, PHP.

Spring 5, Docker, Jenkins, Nginx, Tomcat, distribution system(Hadoop, Kafka, Spark, AWS, HBase, MapReduce), JQuery, Bootstrap, Swagger2, Netty, Ehcache, Git, Tensorflow, PyTorch, OpenCV, Linux, CMake, ROS(Robot Operating System).

工作经历

Cloudian Inc
Software Engineer
2018 年 10 月 - Present
San Francisco Bay Area

Java software engineer for cloud storage.

Western Union

Software Engineer

2018 年 7 月 - 2018 年 10 月 (4 个月)

San Francisco Bay Area

- Work in a back-end team to provide consumers a seamless experience across all Western Union Channels.
- Provide solution implementation including: system set-ups, development, system and integration testing.
- Troubleshoot application issues and coordinate issue resolution with functional and technical teams.
- Participate in project refactoring, migration and test with Spring Boot.
- Technology stack covers Spring, Oracle Database, REST API, Maven, JMS and so on.

WR1 Inc

Back-end Software Engineer

2018 年 5 月 - 2018 年 7 月 (3 个月)

Greater New York City Area

Focusing on back-end platform building, the computer performs optimization, cloud platform using, data processing, database processing and so on.

International Technological University (ITU)

1 年 9 个月

Software Engineer

2017 年 12 月 - 2018 年 5 月 (6 个月)

San Francisco Bay Area

Responsible for the construction of robot software system and other software systems.

Built a robot project which is capable of locating itself and generate a grid map for navigation.

- Integrated sensor data include IMU data and Odometer with Kalman Filter to initialize the location of robot each frame, then matched 2D LIDAR data frame by frame to further locate the robot and generate a map.
- Used optimization algorithms to reduce cumulative errors. Built a CNN network to generate robust features for images matching which is used for optimization.

- The finished interactive interface of robots in the browser with ReactJS, HTML, CSS, Canvas. Built a simple server as a bridge between robot system and front-end system.

Invoicing Management System

Build a Spring Boot based invoicing management system. The main technologies are Spring Boot, Shiro, MySQL, EasyUI. It includes administration system, basic information system, purchase system, sale system, inventory system, and statistics system.

Design and implement all tables in MySQL, and establish related entities in Spring with JPA.

In the controller, write RESTful API for the front-end. Configure Shiro for authority management for different roles. The authority relationship is set in database.

In front-end, EasyUI is the main framework is used. Most resource requests are based on Ajax in JQuery. Webjars as a management tool for client-side web libraries is used.

Write test code with JUnit and Mockito. CircleCI is also used to set up Continuous Integration builds.

Deploy and run this application inside a Docker container in AWS.

Research Assistant

2016 年 9 月 - 2017 年 12 月 (1 年 4 个月)

San Jose, CA

Participated in robot platform construction for robot navigation and perception.

- Integrated sensors data IMU, camera and 2d LIDAR with C++. Build grid maps for robot navigation. Implemented CNN algorithm to generate descriptors for image matching which is for the sake of robot localization and mapping. The project is built with CMake so it could be transplanted among different platforms easily.

Built a robot interface system with Canvas, JQuery, and Spring and deployed in AWS. With the system, the robot could help people to carry some objects to target place.

At Didi Udacity Self-Driving Car Challenge, built a project to train processed sensor data with Faster RCNN to

predict the position and size of cars and pedestrians.

- In order to speed up the whole process, read LIDAR data from ROS topics to convert them to bird's view data and front view data, stored as binary files.

- Built a CNN model bases on Faster RCNN separately with bird's view data, front view data and camera images, then integrated them for three-dimensional space, finally, trained this model for the position and size prediction of cars and pedestrians.

Built a robot project which is capable of locate itself and generate a grid map for navigation.

- Integrated sensor data include IMU data and Odometer with Kalman Filter to initialize the location of robot each frame, then matched 2D LIDAR data frame by frame to further locate the robot and generate a map.
- Used optimization algorithms to reduce cumulative errors. Built a CNN network to generate robust features for images matching which is used for optimization.
- Finished interactive interface of robots in the browser with ReactJS, HTML, CSS, Canvas. Built a simple server as a bridge between robot system and front end system.

Topit.me

Software Engineer

2014 年 10 月 - 2015 年 9 月 (1 年)

Beijing

Worked in the back-end technical group of a network company.

- Built and maintained a backstage management system for operational staff with PHP.
- In charge of the back-end development of new version update of mobile phone application. Designed and provided RESTful API for the new channel with selected theme.
- Participated in refactoring to migrate the old project to Laraval in PHP.

BBS System

Build a Spring Boot based BBS system. Design all entities in Mysql.

Configure Shiro to build a authority system such as post management, reply management and user management. Separate front-end and back-end, use Spring MVC to build RESTful API. The front end is built with LayUI and JQuery. Build one on one and one on many notification service based on WebSocket and Stomp. A real time chat service is built based on Netty and WebSocket, data is transformed as the format of JSON. To improve the

efficient of data access, use Redis as hot cache, and Ehcache is used as second cache.

教育经历

Peking University

Master's degree, Intelligent System Design · (2015 - 2017)

International Technological University (ITU)

Master's degree, Computer Engineering · (2016 - 2017)

Communication University of China

Bachelor's degree, Electronic information engineering · (2011 - 2015)