Sitao (Charlie) Tong

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EDUCATION

The Ohio State University, Columbus, Ohio

Aug 2021- Dec 2023(Expected)

B.S in Computer Science and Engineering (Transfer);

GPA 3.85/4.0

• Software 2 Teaching Assistant (AU22), Dean's List (3 Semesters)

Zhejiang University of Technology, Hangzhou, China

Sep 2018 - Sep 2021

B.S in Software Engineering;

GPA 86/100

Courses: Operating System, Computer Networks, AI, Algorithms and Data Structure ... Transcript Link

SKILLS

Programming Languages: Java, Python, Ruby, C++/C, SQL, MatLab, HTML, JavaScript

Frameworks/Platform: SpringMVC, Pytorch, Git, Maven, Linux, AWS

EXPERIENCE

Zhejiang University of Technology, Computer Vision Lab

(Personal) Fine-Grinded Sketch Based Image Retrival System with ViT

Hangzhou, China

Research Assistant (Instructor: Cong Bai)

Nov 2020 - Jun 2021

- Developed an AI system which user draw a sketch on portable device and retrieve the similar image
 of the same category. System can collect the query history to expand the existing dataset.
- Improved a Siamese Neural Network with Triplet Loss based on Vision Transformer (**ViT**); the top1 accurracy increase by 4% compared to traditional method.
- Implemented the AI system with Pytorch; developed the server with Flask.

PROJECTS

Location Based Campus Activity System (Group of 4) Leader | Database Design, Backend;

Jan 2021-Feb 2021

- Developed a web application that manage the activity on campus; the Participant search activity
 according to period and location on map, check in and check out, leave a comment online; the
 organizer can upload activity information; the mentor can approve the application in group online;
- Implemented the web based on **SSM** (Spring+SpringMVC+Mybatis); Deployed the database on **AWS**; stored image data in **AliyunOSS**. The group collaborated with **GitHub**.

(Individual) Earthquake SOS Car

July 2020-Aug 2020

- Developed an SOS car system which can make its way out of a dangerous place, cry for help, recognize rescue team and lead the them back to the spot.
- Deployed on Raspberry Pi 3 under **Linux (Ubantu)** developed the motor control, routing and face detection with **Python**.
- Recognized rescue team with face detection, implemented with cascade classifier with OpenCV.

(Individual) A Local Full-text Search Engine

Sep 2019-Jan 2020

• Developed a local full-text search engine with **Java**, implemented full-text search based on **Lucene** library, with various filter options and highlight the keywords in content preview window.