

Bowen Xiao

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2001 Long Xiang Road, Shenzhen, Guangdong, 518172
Birthday: 1999/6 | Male | Hometown: HUNAN

EDUCATION

Chinese University of Hong Kong, Shenzhen (CUHK-Shenzhen)

Sep 2017 - Jun 2021

Bachelor in Computer Science and Engineering

Shenzhen

- GPA: 3.539 / 4.0 (Top 10%)

HONORS & AWARDS

- 10th Undergraduate Research Award
- School of Science and Engineering Dean List

2019

2018, 2019

RESEARCH EXPERIENCE

Blockchain-based Toll Collection System

Nov 2018 - Feb 2019

- Apply blockchain in traditional edge computing fee collection system and test performance in a production environment.
- Publish paper at 2019 IEEE INFOCOM WKSHPS (IECCO) as first author and was Invited for presentation in Paris.

Digital Agriculture Fruits Counting

Nov 2019 - Present

- Apply Faster-RCNN (object-wise) in fruits counting (single frame) with 90% prediction accuracy.
- Implement semantic segmentation model (pixel-wise) for apples.

Blockchain-based Education Cloud

May 2019 - Aug 2019

- Collect previous literatures on blockchain education system and perform necessary system throughput test.
- Published paper at Computing, Communications and IoT Applications Conference (ComComAp2019).

WORK EXPERIENCE

Software for Edge and Blockchain Systems (SFENKS) Laboratory, CUHK-Shenzhen

Sep 2019 - Present

Undergraduate Research Assistant

Shenzhen

- Conduct research on resource sharing problems and try to solve it by blockchain incentive mechanisms.
- Investigate the relational model of multi-users and multi-edges in edge computing.

Research Institute of Tsinghua University in Shenzhen

Sep 2019 - Present

Undergraduate Research Assistant

Shenzhen

- Implement deep learning algorithm (fruits counting, illness prediction) in agriculture.
- Develop a front end visualization interface for sensor data.
- Enable data transferring between raspberry pi and amazon web service.

Institute for Shenzhen Big Data Institute, CUHK-Shenzhen

Jun 2019 - Dec 2019

Software Engineer, Front-end

Shenzhen

- Implement frontend interface of query entry by JavaScript.
- Develop a Wechat mini program about smart commutation for 2019 Huawei Data Creativity Competition (rank 9th).
- Reorganize web pages by adopting new visualization framework E-Chart JS.

Tech X Academic Summer Camp

Sep 2019 - Oct 2019

Academic Leader, Machine Learning

Shanghai

- Participate in teaching routine (debug students' homework or explain machine learning algorithms concept).
- Provide advice for more than one hundred students on their final programming project.