

# Siqing Zhang

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## PERSONAL PROFILE

I am a Master of Information Technology graduate with a robust background in engineering and coding, seeking an opportunity to thrive in collaborative environments and commit to delivering strong results. With a passion for logic and problem solving, I am an enthusiastic team player eager to contribute to an engineering position within an organization that is poised to shape the future.

## EDUCATION

### The University of New South Wales

Master of Information Technology (With Excellence) WAM : 83

Kensington, NSW, AU

Feb 2022 - Jan 2024

### Northwestern Polytechnical University (ARWU top 200, 985 Project)

Bachelor of Engineering - Electronics Information Engineering (USNEWS: 15th in world)

Xi'an, P.R.China

July 2016 - June 2020

## SKILLS SUMMARY

### Languages:

C++, C, Python, HTML/CSS, JavaScript, SQL, Rust, Java

### Frameworks and Libraries:

HDFS, Spark, PyTorch, TensorFlow, Scikit, OpenCV, PointCloud, ReactJS, NodeJS, SpringBoot, Bootstrap, Catch2, Bazel

### Development Tools:

Matlab, PostgreSQL, MongoDB, Flask, Halcon, Unreal

## WORKING EXPERIENCE

### Shenzhen Cognivison Tech Inc.

Computer Vision Algorithm Engineering Intern

Shenzhen, P.R. China

Dec. 2020 - May 2021

- Developed solutions for PCB resin plug hole detection, collaborating with university teams and factories to enhance data collection and algorithm optimization.
- Managed CNN model training, prepared datasets, and enhanced forum performance.
- Designed algorithms for automated optical inspection.

## PROJECTS

### Bicycle Trajectory Planning in Map Matching 📍

Leader of a research group in collaboration with the Delft University of Tech. Using C++ to implement kD-tree and bicycle trajectory with an improved swift comparing algorithm to match a feasible path within Zuid Holland where roads are complex and dense.

Ongoing

### Database Management System 📍

Create a database system in C from scratch, giving it methods such as JOIN and SELECT, similar to PostgreSQL.

May 2023

### A Dataflow Pipeline 📍

A simplified dataflow pipeline library in C++, making use of both static polymorphism (templates) and dynamic polymorphism (virtual functions and inheritance).

May 2023

### Filtered std::string\_view 📍

Implement the functionality of string\_view in C++17 and ensure that it supports filtering based on the provided criteria.

May 2023

### Pre-computed Index of Eccentricity for Temporal Graph 📍

Created a pre-computed index using C++ to query the eccentricity of each vertex in a temporal graph. The formula is frequently utilized in database analysis to calculate the size of the graph in scalable way.

Dec 2022

## HONORS AND AWARDS

Mathematical Modeling Warm-up Competition of NPU, First Prize

2019

Excellent Student of School of Electronic and Information

2018

Outstanding Volunteer of Shaanxi History Museum

2017

## OTHERS EXPERIENCE

### Shaanxi History Museum

Vice Captain of Volunteer Team

Xi'an, P.R.China

Oct. 2016 - Dec. 2019

**Service:** Arrange volunteer activities & Provide free cultural relics explanation and service to the community.