

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, 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 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

A Relational Database System

Implement a database system in C with methods such as JOIN and SELECT, similar to PostgreSQL.

Dec 2023

A Rip-off Version of the Popular Messaging Tool Slack

An application with basic functions of slack.

Dec 2023

A Rip-off P2P Property Renting Service AirBrB

A ReactJS application that mirrors the fundamental features of Airbnb.

Dec 2023

A Computer Vision Project for Pneumonia Detection from CT Chest Scans

A neural network-based visual algorithm to detect pneumonia in CT images.

Sep 2023

Database Management System

Implement a database system in C with methods such as JOIN and SELECT, similar to PostgreSQL.

May 2023

A Dataflow Pipeline

A simplified dataflow pipeline library, 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, frequently utilized in database analysis.

Dec 2023

6D Pose Estimation of Underwater Rigid Body Based on Binocular Vision

Developed a stereo matching and deep learning algorithm using a binocular camera, employing technologies such as OpenCV, PCL, PyTorch, C++, and Python.

Dec 2021

Driver Fatigue Monitoring System Based on Intelligent Terminal

National-level College Student Innovation Training Program, Ministry of Education P.R.China.

Designed and trained an algorithm using video data to monitor driver fatigue status during driving. *May 2020*

I/Q Modulation Technology Based on Microwave Photonics

National-level College Student Innovation Training Program, Ministry of Education P.R.China.

Explored microwave photon orthogonal optical communication modulation using the Mach-Zehnder modulator. *May 2020*

HONORS AND AWARDS

Mathematical Modeling Warm-up Competition of NPU, First Prize	<i>2019</i>
Excellent Student of School of Electronic and Information	<i>2018</i>
Outstanding Volunteer of Shaanxi History Museum	<i>2017</i>

OTHERS EXPERIENCE

Shaanxi History Museum	<i>Xi'an, P.R.China</i>
<i>Vice Captain of Volunteer Team</i>	<i>Oct. 2016 - Dec. 2019</i>
Service: Arrange volunteer activities & Provide free cultural relics explanation and service to the community.	