

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

Project Management System 📍

Designed and implemented a full-stack web platform using ReactJS, Flask, and MongoDB that connects companies offering projects with interested individual contributors.

Dec 2023

Messaging Tool 📍

Using vanilla Javascript, built a web-based messaging tool with features such as authentication, viewing and sending messages, and error handling.

Dec 2023

Database Management System 📍

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

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.