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 *Kensington, NSW, AU*
Master of Information Technology (With Excellence) WAM : 83 *Feb 2022 - Jan 2024*
Northwestern Polytechnical University (ARWU top 200, 985 Project) *Xi'an, P.R.China*
Bachelor of Engineering - Electronics Information Engineering(USNEWS: 15th in world) *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 Cognvison Tech Inc. *Shenzhen, P.R. China*
Computer Vision Algorithm Engineering Intern *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*

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 *2019*

Excellent Student of School of Electronic and Information *2018*

Outstanding Volunteer of Shaanxi History Museum *2017*

OTHERS EXPERIENCE

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