RESUME

JIAYANG SHANG(Dylan)

PERSONAL DETAILS

DOB // 14 April 2000   Mobile // (+61) 0499851580

Nation // China   Email // lantu.april@gmail.com

Address // Barangaroo NSW 2032

EDUCATION

University of New South Wales, Australia   **Feb 2023 – Sep 2024**

- Master of information technology WAM: 80.75/100
- Core Courses: Principles of Programming (DN), Data Structures & Algorithms (HD), Database Systems (HD), Artificial Intelligence (DN), Computer Networks & Applications (HD), Software Construction (HD)

Jiangsu University of Technology, China   **Sep 2018 – Jun 2022**

- Bachelor of Internet of things
- Core Courses: Digital & Analog circuits, Mobile application development, Short-distance wireless technology, Embedded software development, Microprocessor Application etc.

EMPLOYMENT

2021.12 - 2022.06   **Changzhou Youzhi Automation Co., LTD, China**   **Algorithm and software Engineer**

- Developing industrial vision software with C++ and QT
- Implementing and optimizing the vision algorithms and improving the interactivity of software

PROJECT EXPERIENCE

Project: Campus Guide Program   Jul 2018 - Present

- Built a WeChat program with React which provide campus guide include encyclopedia, news, personal class schedule, learning materials for all staff and students
- Implemented Restful API interface with Laravel framework and use Python to collect courses information
- The program has been maintained since 2018, and the number of users is over 10,000

Project: Industrial vision processing Program   Dec 2021 – Jun 2022

- Developed a machine vision software named AIV with C++, which was used in industrial product quality testing
- Using OpenCV to accomplish 2D/3D features including template matching, line/circle/plane finding, etc.
- Implemented UI functions including step by step execution, scripting, debugging, 2D/3D effect preview, etc.

Project: Kùzu-Wasm   **Dec** 2021 – Jun 2022

- First public Graph Database powered by WebAssembly
- Developed during the research program at the UNSW under the supervision of Dr. Zhengyi Yang
- Designed to provide fast server-less analytical processing for the graphs on the Web

PUBLICATIONS

Feb 2022	Pine Script™ v5 User Manual Chinese Version	GitHub
Aug 2024	Kùzu-Wasm: High-performance In-browser Graph Analysis	University of New South Wales

TECHNICAL SKILLS

Programming Language: JavaScript, Typescript, Shell, HTML, PHP, Python, C, C++, SQL, Cypher

Tools and frameworks: Docker, Git, Node.js, QT, React, Vue, CI/CD, WebAssembly