

# Yaodong (Carl) Wang

(314) 745-9380 | carl.w@wustl.edu | www.linkedin.com/in/carl-wang-922a102b0

## Education

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### Washington University in St. Louis

Major in Computer Science

Minor in Human Computer Interaction

Expected Graduation: May 2026

Relevant Coursework: Rapid Prototype Development and Creative Programming, Object-Oriented Software Development Laboratory, Data Structure and Algorithms

St. Louis, MO

GPA 3.65/4.00

## Engineering Experience

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### McKelvey School of Engineering

CSE 132, Teaching Assistant

St. Louis, MO

August 2023 – Present

- Assist with course operations, including grading assignments and facilitating classroom activities.
- Host office hours sessions to help students with course content and assignments.

### McKelvey School of Engineering

CSE 330, Teaching Assistant

St. Louis, MO

January 2024 - Present

- Assist with course operations, including grading assignments and facilitating classroom activities.
- Host online office hour sessions to help students with course content and assignments.

### McKelvey School of Engineering

Computer Imaging Group, Research Assistant

St. Louis, MO

May 2023 – December 2023

- Conducted research study on performance of adapted mismatched priors in the Plug-and-Play (PnP) method for image deblurring.
- Fine-tuned and optimized DruNet priors by training and testing using PyTorch code.
- Produced paper report and gave presentation on research findings.

### Basis International School Shenzhen

Robotics team, Software programmer

Shenzhen, Guangdong

August 2019 - August 2020

- Programmed a robot to move manually and basic automation through object detection using Vuforia framework.
- Acquired ability to analyze robot movement, problem-solve, and diagnose software problems related to the robot.

## Project Experience

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### Tables, Hack WashU

Back end programmer and collaborator

St. Louis, MO

2023

- Site software constructed with peers during Hack WashU 2023 event.
- Powered by Node.JS and React, site uses crowdsourcing to accomplish tasks listed by users with a custom reward system.
- Project is still under development. Github link: <https://github.com/cwong8751/hackwashu2023>

### Scanner, Personal project

Author

Shenzhen, Guangdong

2021-2023

- Mobile application designed to run on iOS and iPadOS systems made for family clothing retail business.
- Application scans code192 barcodes and gives an option to take pictures of clothing and saves to filesystem.
- Users have the option to see and output pictures. Part of an internal retail sales system.
- Project is under active development. Link: <http://www.wqis.xyz/scanner.html>

## Technical Skills

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- Programming Languages: Java, Python, C#, PHP, Javascript, Visual Basic .NET, C++, Swift, Kotlin
- Databases: Firebase, MySQL, SQL Lite
- Frameworks: React. JS, Vue. JS, Vuforia, Android, iOS
- Software: Microsoft Office, Adobe Photoshop, CorelDraw, Adobe Illustrator, Adobe InDesign
- Communication: fluent in Mandarin and Cantonese