

# ZACH Z. WANG

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## SKILLS and SUMMARY

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**Primary Languages:** C++, C#, Python, CUDA

**Familiar With:** HTML, CSS, JavaScript

**Focus Area:** Computer Vision, Deep Learning, Virtual Reality, Reinforcement Learning, Simulation

Three years of programming experience with various languages. C++ and Python are my most efficient languages due to my interests in computer vision and deep learning. My background in business and technology helps me become a user-oriented developer. This mindset keeps me focusing on core problems and seeking optimal solutions.

## RESEARCH PROJECTS

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- 1) Vertex2Image - Construct Human Figure Based On A Monocular Video  
**Published In ACM IUI 2023 Conference**
- 2) 3D Pose Estimation From Multi-View 2D Joints' Locations  
**Target At ICCV 2023 Conference**

## WORKING EXPERIENCES

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**Remote Contractor,** Harbin, China  
HanMa Cemetery Service LLC

Aug 2022 - Nov 2022

The company provides cemetery services for Muslim communities in China. The business part I involved in is to use the ArcGIS interface to provide tomb locations based on name searches.

- train a self-supervised model to generate pseudo labels in their raw image dataset for downstream applications
- design a deep learning model to recognize text information in the images and reduced 76% of the workload for employees
- create an internal tool to increase employees' productivity. The average input time of an employee is reduced from 90 seconds per image to 30 seconds per image

**Founding Member,** San Francisco, CA  
Sci-Bots LLC

Jan 2021 - Jun 2022

The company is a non-profit organization that teaches kids between 6 and 10 years old to learn about micro-controller, programming, and robotics in a fun way. We collaborate with DJI and MG Space to design the curriculum. Our website: [www.sci-bots.org](http://www.sci-bots.org)

- serve as the main curriculum designer and developed 3 classes
- train lecturers for new class materials every week
- supervise class flow and progress

**Assistant Manager,** Dixon, CA  
CP Capital Group Inc.

May 2017 - Jan 2023

The company owns several hotel businesses in the Bay Area and operates tourism business for regular travel groups, student groups, and delegation groups.

- oversee daily operations
- establish and maintain relationships with vendors and clients
- prepare monthly and yearly data dashboard

## EDUCATION

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**Master of Science in Computer Science**  
San Francisco State University, San Francisco, California

Graduated on Dec 2022

**Master of Business Administration**  
San Francisco State University, San Francisco, California

Graduated on Jun 2019