

Jadon Zhu

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EDUCATION

University of California, Los Angeles (UCLA)

Bachelor of Science, Applied Mathematics

Minor, Data Science Engineering

- **GPA:** 3.97

Los Angeles, CA

Expected June 2027

Walnut High School

High School Diploma, International Baccalaureate Certificate

- **Valedictorian**

- **GPA:** 4.0

Walnut, CA

May 2023

SKILLS AND COURSEWORK

Python, R, C/C++, Golang, JavaScript, Astro, Linux, Git, Godot, Docker, Machine Learning, Optimization, Statistics

EXPERIENCES

Embedded Firmware Development and Test Engineering Intern

Motorola Solutions

Los Angeles, CA

Jun 2025 - Aug 2025

- Automated using large-language models and Python the documentation of over 300 JSON-RPC Application Programming Interface methods.
- Developed programmatic input validation using Golang to fortify insecure legacy C and C++ API.
- Configured Docker containers to establish a consistent environment for cross-compilation of embedded firmware from x86 Linux to ARMv7 RISC.
- Managed multiple sub-projects and collaborated with senior developers through Git and GitLab version control.

Machine Learning Analyst

X. William Yang Lab at UCLA Semel Institute for Neuroscience and Human Behavior

Los Angeles, CA

Nov 2023 - Jan 2025

- Trained using Python convolutional neural network (CNN) to segment 3-D images of mouse brain neurons.
- Developed Python scripts as plugins to ImageJ to automate efficient 3-D image processing.
- Reconstructed manually 3-D images of neurons using digital imaging software Neutube.
- Selected to present research findings at UCLA Undergraduate Research Week.

Programmer

UCLA Fiat Ludum Game Jam

Los Angeles, CA

April 2025

- Implemented complex games in Godot by leveraging inheritance and composition as lead programmer.
- Won over \$6000 in prize value as a part of the UCLA Fiat Ludum Game Jam.
- Designed a compelling story as background lore for the game.

REFERENCES

Ajit Warrier • *Director of Software Engineering @ Silvus, a Motorola Solutions Company*

ajit.warrier@silvustechologies.com

Masood Akram • *Postdoctoral Scholar, X. William Yang Lab at UCLA Semel Institute*

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Saanchi Shah • Teaching Assistant, University of California, Los Angeles • sshah15@ucla.edu