

# Jadon Zhu

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**OBJECTIVE:** Mathematics student specializing in data and computer science seeking an impactful engineering internship.

## 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

Python, PyTorch, C/C++, Golang, Git, Docker, Bash, R, Godot

## 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, tracked on Git and GitLab
- Configured Docker containers to establish consistent environment for compilation of embedded firmware
- Integrated memory-safe parsing functions into legacy C program using CGo in a cross-compilation environment

### 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*

- Won over \$6000 in prize value as apart of the UCLA Fiat Ludum Game Jam
- Lead programmer in developing an award-winning game with unique minigame mechanics
- Designed compelling story as background lore for game

## REFERENCES

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

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

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