

# JAYDEN LIM

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## EDUCATION

Monta Vista High School, Cupertino, CA  
Relevant coursework: AP Computer Science, Digital Forensics, Jetson AI Specialist

Graduating June 2025  
4.0 GPA UW

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## TECHNICAL SKILLS

**Front End Web Development:** HTML5, CSS3, Bootstrap, Javascript, JQuery, Django

**Back End Web Development:** Python, Django, Django REST Api, Postgresql

**Machine Learning:** Python, Tensorflow, Keras, Numpy, Pandas, Matplotlib

**Programming:** Python, Java, Javascript

**Certifications:** Jetson AI Specialist – August 2022

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## ACADEMIC PROJECTS

### Osteoarthritis BCNN

December 2023 - March 2024

Created a Bayesian convolutional neural network (BCNN) using X-ray data for explainable uncertainty-aware osteoarthritis severity prediction.

- Tools: Keras, Tensorflow Distributions, Weights & Bias,
- Skills: Data Augmentation & Preprocessing, Machine Learning

### LaunchLink Website

July 2023

Created a platform where small businesses could request a website/app to be made and it matches students with the small business to create the requested application.

- Tools: HTML, CSS, Bootstrap, Javascript, Python, Django, Vercel, Postgresql, Supabase
- Skills: Full-Stack Web Development, DevOps, User Auth, Relational Data

### Personal Website

June 2023

Created a dynamic portfolio website to practice full-stack web development that is connected to a server.

- Tools: HTML, CSS, Javascript, Python, Django, Heroku
- Skills: Full-Stack Web Development, DevOps

### Lunch Line Cutter Detector

June 2023

Trained a YOLO computer vision model to detect people in my school's lunch line and wrote a Python script to track who cut the line.

- Tools: Python, OpenCV, Yolov8 Model
- Skills: Data Collection, Data Preparation, Model Selection, Model Training, Model Testing

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## ACTIVITIES

### Researcher at ASDRP

Using Python-Based Hartree-Fock Approximations for Verifying Molecular Energy and Stability of Computationally Constructed Candidate Organic Molecules

### PetBound

Building an adoption/fostering platform similar to PetFinder with the goal of preventing the high scam rate and poor user experience with PetFinder

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## SCHOOL ACTIVITIES

### Badminton Captain & VP

Organized tryouts, communicate important information to the team, led drills during practice

### Research Club

Using X-ray Data for Explainable Uncertainty-Aware Osteoarthritis Severity Prediction