

DYLAN MONGE

dylanmonge2002@gmail.com ◇ (626) 428-6913 ◇ github.com/DylMon ◇ linkedin.com/in/dylan-monge

EDUCATION

California State Polytechnic University, Pomona

B.S. Computer Science, Minor in Data Science
3.40 GPA

Pomona, CA
09/2020 - 04/2025

PROFESSIONAL EXPERIENCE

Lavner Education

IT Support Intern & Instructor

Pomona, CA
06/2025 - Present

- Configured and maintained computer hardware, classroom technology, and internet infrastructure to support daily tech camp operations
- Provided real-time troubleshooting and technical support to instructors and students, ensuring minimal downtime and consistent program delivery
- Acted as liaison between the camp site and headquarters for resolving technical issues, streamlining communication and implementation of solutions
- Managed and tracked weekly equipment inventory, ensuring all devices and tools are accounted for and operational

Cal Poly Pomona Enterprises

Aerospace ML Programmer - Undergraduate Research

Pomona, CA
04/2024 - Present

- Developed and optimized machine learning regression models using TensorFlow, Scikit-learn, Pandas and Matplotlib to identify defects on a wing, yielding a 73.84% increase in accuracy over previous models
- Designed and evaluated three further models for predicting Von-Mises stress fields of the beam across 40,791 coordinates, achieving R^2 scores exceeding 99%
- Deployed an interactive website to demonstrate the digital twin model, allowing users to test and visualize results with WebGL and Unity at SSDM ASME 2025 Conference

Cal Poly Pomona College of Business Administration

Digital Twin Programmer - Undergraduate Research

Pomona, CA
09/2024 - 05/2025

- Engineered a Unity-based VR prototype simulating classroom infrastructure from point-cloud scans, integrating IoT sensor data to support immersive educational engagement
- Built a real-time digital twin pipeline using Trimble RealWorks, Autodesk Revit and Tandem, to process point-cloud data and produce interactive BIM models
- Integrated Tandem with Unity via REST APIs to synchronize real-time digital twin environments in VR simulation
- Led the end-to-end project lifecycle and presented a functional Meta Quest 2 VR demo at CSRC 2025 Conference to academic and industry audiences

TECHNICAL SKILLS

Languages:

Python, SQL, Java, JavaScript, HTML, Dart, C#

Tools/Frameworks:

Android Studio, AWS, Excel, Firebase, Flutter, Git, Jest, Jupyter Notebook, MongoDB, MySQL, Unity

Certifications:

AWS Certified Cloud Practitioner

LEADERSHIP

Cal Poly Pomona Science Council

Director of Public Relations

Pomona, CA
09/2024 - 05/2025

- Improved digital outreach and student engagement by developing the council website and launching a thematic social media campaign, boosting visibility across the College of Science

Sigma Phi Epsilon Fraternity, California Mu

Vice President of Finance

Pomona, CA
09/2024 - 05/2025

- Streamlined chapter finances by creating and managing the annual budget, leading fundraising efforts, and overseeing dues collection and tax compliance for philanthropic initiatives