

DYLAN MONGE

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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

Freelance Web Developer

Self-Employed

Duarte, CA

05/2025 - Present

- Designed and deployed full-stack web applications using React, Supabase (Postgres), and Vercel hosting
- Configured DNS records, domains, and SSL for production client sites
- Implemented authentication, database schemas, and cloud storage for business data workflows
- Integrated third-party services (scheduling, forms, payments) into client systems

IT Infrastructure Technician

DOV Group

Glendale, CA

09/2025 - Present

- Managed asset inventory datasets and lifecycle tracking for multi-client hardware fleets
- Provided remote and onsite desktop/network support using Ensight secure access tools
- Installed and maintained IoT and smart-office infrastructure (cameras, conferencing, workstations)

Lead ML Engineer

Cal Poly Pomona Enterprises - Undergraduate Research

Pomona, CA

04/2024 - Present

- Developed and optimized regression models (TensorFlow, Scikit-learn) to identify defects on a wing, yielding a 73.84% increase in accuracy over previous models
- Engineered three models for predicting Von-Mises stress fields of the beam across 40,791 coordinates, achieving R^2 scores exceeding 99%
- Deployed interactive WebGL/Unity digital-twin website presented at ASME SSDM 2025 Conference

IT Support Intern & Instructor

Lavner Education

Pomona, CA

06/2025 - 08/2025

- 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

TECHNICAL SKILLS

Languages:

Python, SQL, Java, JavaScript

Cloud & Data:

AWS, Supabase (Postgres), MySQL, MongoDB, Firebase

Certification:

AWS Certified Cloud Practitioner

PUBLICATIONS

Driggs, C.; Holley, A.; Monge, D.; Montano, R.; Sotoudeh, Z. "A Digital Twin Framework for Real-Time Damage Localization and Stress-Field Prediction in Plate Structures." *AIAA SciTech Forum*, 2026.