

Dylan J. Brown

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OBJECTIVE

Experienced in biomedical research, data analysis, and business operations. Skilled in translating scientific and operational data into actionable insights, with hands-on experience in biometrics research, clinical data analysis, e-commerce optimization, and AI-assisted workflow development. Interested in applying a combined scientific, analytical, and business-oriented background to support biotech innovation and growth strategies.

EDUCATION

University of California, Davis, Davis, CA

Expected June 2028

- B.S. in Molecular and Medical Microbiology | Minor in Quantitative Biology and Bioinformatics | GPA: 3.70

SKILLS

- **Molecular Biology:** PCR, gel electrophoresis, Illumina sequencing, protein purification, BLI, ELISA, antibody–antigen interaction analysis, clinical sample handling, plasma isolation, requisition review, sample verification, LIS documentation, HIPAA/CLIA-compliant workflows, and protein expression analysis.
- **AI & Automation:** OpenClaw (Claude Sonnet 4.6 + Perplexity Search), Claude Code, Lovable
- **Project Management:** Project design & execution, cross-functional collaboration, team leadership (50+ members), crisis management, scientific writing, public speaking, task delegation.

WORK EXPERIENCE

BillionToOne, Accessioner, Menlo Park, CA

June 2026-Present

- Processed and accessioned clinical specimens in a high-throughput molecular diagnostics laboratory, ensuring accurate sample identification, labeling, and documentation under CLIA guidelines.
- Performed plasma and buffy coat isolation while following established SOPs and sample handling procedures.
- Engaged with laboratory operations and management teams to gain exposure to the strategic, operational, and commercial drivers behind scaling a high-growth molecular diagnostics company.

Scripps Research Translational Institute, Project Intern & Laboratory Assistant, La Jolla, CA *Summers 2024 & 2025*

- Designed and executed an independent biometrics research project analyzing sleep and cardiovascular patterns using the Corsano 287-2B wearable device, collecting 1000+ hours of physiological data.
- Analyzed large-scale datasets to identify correlations between physiological trends and sleep quality.
- Contributed to Dr. Andrew Ward's universal influenza vaccine team, supporting studies on cross-strain antibody response through data interpretation, experimentation, and collaboration with senior researchers.
- Assisted in vaccine formulation and experimental analysis, characterizing antibody–antigen interactions across conserved influenza epitopes using molecular assays and protein characterization techniques.

Handshake AI, AI Training Specialist, Remote

March 2026-Present

- Evaluated AI-generated text, image, video, and speech outputs using structured rubrics to assess instruction following, factual accuracy, visual quality, content fidelity, and overall model performance.

Express Diesel USA, Business & E-Commerce Associate, San Diego, CA

January-June 2025

- Optimized digital sales operations and pricing strategy across 600+ SKUs to improve conversion rates and profits.
- Developed and implemented an AI-assisted workflow to integrate Bosch diesel engine product videos across the eBay storefront, enhancing branding, customer engagement, and contributing to a 15% quarterly sales increase.

Tap'n It Tech, CEO, Canyon Crest Academy

2023-2024

- Founded an NFC/RFID product venture generating \$3K+ in revenue through custom digital-linking products, sales outreach, and product development.

GROUPS

Undergraduate Researcher, Prof. Dr. Jogendir Tushir-Singh's Lab, UC Davis School of Medicine *January 2026-Present*

- Study plasmin mediated proteolysis in ovarian cancer models by evaluating the inhibitory efficacy of Textilinin, Aprotinin 2P, and Aprotinin WT through protein expression and cleavage analysis.

AI Student Collective (AISC), Member, UC Davis

September 2025-Present

- Analyzing clinical data from 300+ patients and running analysis in Python to support diabetes risk prediction.
- Cleaned and normalized clinical datasets to improve data quality for predictive modeling.