

# Luke Reyes

626-420-2047 | [lukejreyes@gmail.com](mailto:lukejreyes@gmail.com) | [linkedin.com/in/luke-reyes-13a65b3a5](https://www.linkedin.com/in/luke-reyes-13a65b3a5) | [github.com/lukejreyes-svg](https://github.com/lukejreyes-svg)

## EDUCATION

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|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>University of California, Berkeley</b><br><i>B.A. Physics &amp; Data Science</i>                                                | Aug. 2025 – May 2029<br><i>Berkeley, CA</i>  |
| <b>Bishop Amat Memorial High School</b><br><i>Top 4 in Graduating Class   RIT Computing Award (\$76,000)   CyberPatriot Member</i> | Aug. 2021 – May 2025<br><i>La Puente, CA</i> |
| <b>Frontier Technology Institute</b><br><i>Introduction to Quantum Computing (Partnered with Google Quantum AI)</i>                | Aug. 2023 – May 2024<br><i>Remote</i>        |

## EXPERIENCE

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| <b>Artificial Intelligence Trainer &amp; Fellow</b><br><i>Handshake</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                 | May 2026 – Present<br><i>Remote</i>               |
| <ul style="list-style-type: none"><li>Accelerated model alignment quality by executing structured adversarial prompt evaluations across multimodal architectures and generative image models, surfacing logic anomalies and prompt-fidelity failures at scale.</li><li>Engineered a systematic error analysis framework for generated image outputs, categorizing failure modes across reasoning, coherence, and instruction-following dimensions to improve model iteration cycles via expert RLHF feedback.</li></ul> |                                                   |
| <b>Music Manager, Media Committee Head &amp; Show Committee Head</b><br><i>UC Berkeley – Noteworthy A Cappella</i>                                                                                                                                                                                                                                                                                                                                                                                                      | Sept. 2025 – Present<br><i>Berkeley, CA</i>       |
| <ul style="list-style-type: none"><li>Scaled ensemble audience reach by 56% year-over-year by architecting a multi-platform digital content strategy across YouTube, TikTok, and Instagram, owning the full production pipeline from scripting to post-processing.</li><li>Orchestrated logistics for weekly public performances, managing scheduling, budget tracking, and music asset version control across a 15+ member ensemble.</li></ul>                                                                         |                                                   |
| <b>Robotics Assistant Coach/Mentor</b><br><i>St. John the Baptist Robotics “Blockheads” Program</i>                                                                                                                                                                                                                                                                                                                                                                                                                     | Sept. 2021 – Dec. 2023<br><i>Baldwin Park, CA</i> |
| <ul style="list-style-type: none"><li>Taught students programming fundamentals, optimizing EV3 and Spike Prime hardware configurations for automated FLL Challenge arena matches.</li><li>Guided development pipelines for student innovation projects and evaluated mock panel presentations to satisfy rigorous tournament judging rubrics.</li></ul>                                                                                                                                                                 |                                                   |

## PROJECTS

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| <b>AI-Powered Nutrition/Hydration Tracker</b>   <i>Python, SQLite, Gemini, CustomTkinter</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                  | May 2026 – June 2026  |
| <ul style="list-style-type: none"><li>Architected a desktop-native Python application using CustomTkinter to semantically parse free-form natural language inputs into structured, real-time macro-nutrient and hydration tracking data.</li><li>Engineered a zero-hallucination backend integrating Google Gemini 2.5 Flash with JSON-constrained system prompts; designed a normalized SQLite/SQLAlchemy relational schema with an offline data-fallback pipeline for network-independent stability.</li></ul>                              |                       |
| <b>Gaia DR3 Open Stellar Cluster Identifier</b>   <i>Python, NumPy, Matplotlib, DBSCAN</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Oct. 2025 – Dec. 2025 |
| <ul style="list-style-type: none"><li>Processed a multi-million-record Gaia DR3 dataset of stellar parallax, proper motion, and radial velocity using NumPy and Pandas for high-throughput vectorized transformation and exploratory data analysis.</li><li>Engineered a spatial proximity filtering and kinematic trajectory synthesis pipeline using DBSCAN to discriminate gravitationally-bound star clusters from line-of-sight artifacts; visualized results as stellar density isochrones and vector sky maps in Matplotlib.</li></ul> |                       |

## TECHNICAL SKILLS

**Languages & Libraries:** Python, SQL (SQLite), NumPy, Pandas, Matplotlib, Scratch  
**Frameworks & Tools:** SQLAlchemy ORM, Google Gemini API, DBSCAN, Git, GitHub, Claude Code, CustomTkinter  
**Platforms:** Systems Tool Kit (STK), Databricks, Adobe Creative Suite, Google Workspace, Microsoft Office Suite  
**Certifications:** Databricks Academy – Generative AI Fundamentals & AI Agent Fundamentals | Ansys STK Level 1 Certified