

# Luke Cassiano

562-386-7468 | [lukecassiano7@gmail.com](mailto:lukecassiano7@gmail.com) | [linkedin.com/in/lukecassiano](https://www.linkedin.com/in/lukecassiano) | [github.com/lukecassiano](https://github.com/lukecassiano)

## EDUCATION

---

### University of California, Berkeley

Berkeley, CA

*B.A. Cognitive Science, B.S. Neuroscience (Exp. May 2028)*

*SAT: 1460 (SS) — GPA 3.703/4*

- Relevant Coursework: Neuroscience, Cognitive Science, Data Science, Philosophy of Mind, Calculus, Discrete Logic, Computer Science, Mechanical Physics, Biochemistry, Molecular Cell Neurobiology, Discrete Mathematics, Linear Algebra

## EXPERIENCE

---

### Sandbar

San Francisco, CA

*Product Builder / Co-Founder — (Demo)*

*Ongoing*

- Building an agentic surf forecasting platform predicting optimal session windows from swell/wind/tide/break data
- Designed a surf-quality scoring engine using skill level, board type, and topology, achieving 88% alignment with observed conditions
- Translated environmental variables into interpretable recommendations and conducted user research to refine forecasting workflows

### ProductSpace @ UCB

Berkeley, CA

*Product Development Member*

*February 2026 – Present*

- Collaborate with founders, engineers, and designers on early-stage and enterprise product solutions
- Contribute to product strategy and feature scoping through structured problem framing and iterative feedback
- Translate ambiguous product ideas into actionable concepts, prototypes, and implementation plans

### WhiteHelmet

Dubai, UAE

*Product Manager (Client Project)*

*March 2026 – Present*

- Developing an AI-assisted workflow to standardize subcontractor data ingestion across construction projects
- Built an operational model to consolidate and structure subcontractor data for project managers
- Collaborated with stakeholders to refine workflows and improve usability of consolidated outputs

### AirTech

Huntington Beach, CA

*Information Technology Intern*

*June – August 2025*

- Maintained server health and debugged API-level issues using Python and SQL for client-facing systems
- Resolved database inconsistencies, reducing recurring tickets and improving system stability
- Developed monitoring scripts to flag anomalies in system uptime and API latency

### AECOM Environmental Engineering

Long Beach, CA

*Administrative Intern*

*June – August 2023*

- Organized engineering and policy records while supporting operations coordination with external partners
- Streamlined and automated record tracking to improve retrieval efficiency
- Supported compliance planning through structured operational documentation

## PROJECTS

---

### Belief Agent | *Personal Research & Product Project — (Git; Demo)*

- Built a multi-agent system modeling latent belief states using entropy-based confidence scoring
- Designed asymmetric information flow to test trust-weighted inference between sensory and language agents
- Implemented associative memory and entropy-based scoring to simulate temporal belief updating

## SKILLS & INVOLVEMENT

---

**Skills:** Python, SQL, JavaScript, PyTorch, team leadership, cross-functional collaboration, product strategy, data-informed decision making, cognitive modeling, interpretable AI systems

**Interests:** Jazz bassist (8+ yrs trumpet/bass); surfing; snowboarding; philosophy of mind; computational cognition & neuroscience; music production; systems design

**Involvement:** Vice President of Risk, Phi Kappa Psi (UC Berkeley); performing bassist for private events, venues, and ensembles; UC Berkeley Jazz Bassist