

# Jonathan Lau

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## Education

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**California Polytechnic State University, San Luis Obispo**

*Sep 2022 – Present*

*B.S. in Computer Science*

*Expected Jun 2026*

- Coursework: Data Structures, Algorithms, Systems Programming, Databases, Mobile App Development

## Experience

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**Lead Frontend Developer**

*Los Angeles, CA*

*SAY!T Mental Health*

*July 2025 – Present*

- Led frontend development of a production iOS mental health application, owning implementation of onboarding, daily check-ins, and progress tracking features.
- Built reusable SwiftUI components and state management patterns, improving development velocity and long-term maintainability.

**Software Developer**

*San Luis Obispo, CA*

*Hack4Impact*

*September 2023 – Present*

- Built and deployed a full-stack web platform for Habitat for Humanity, enabling staff to manage donation scheduling and tracking for 100+ households.
- Designed backend APIs and data models, integrating AWS S3 for secure media storage and SendGrid for automated donor communication.

**Integem Intern**

*San Marino, CA*

*Integem Inc.*

*June 2024 – August 2024*

- Debugged and optimized applications across Unity, Python, and Scratch, improving stability and execution reliability across projects.
- Assisted in development and testing of 10+ augmented reality projects using Integem's HoloAR platform, gaining hands-on experience with AR workflows and 3D interactions.

## Projects

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**ShotCaller AI**

- Developed a full-stack NBA game outcome prediction system using historical and live game data to estimate win probabilities.
- Exposed real-time predictions through a FastAPI backend consumed by a Next.js frontend.
- Tools: Python, scikit-learn, FastAPI, Next.js, TypeScript, NumPy

**Landlord Fortress**

- Designed and developed a full-stack web application using React and Node.js, featuring user authentication, an e-commerce storefront, and a community discussion forum.
- Implemented backend APIs and database models to support content management, transactions, and user interactions.

**Stop Global Warming Daily**

- Contributed core features to a mobile-first sustainability platform through Hack4Impact, enabling users to track eco-friendly habits and visualize progress toward personal goals.

## Skills

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**Languages:** Python, JavaScript/TypeScript, SQL, Swift

**Frameworks:** React, Next.js, FastAPI, SwiftUI

**Databases:** MongoDB, Supabase

**Tools & Platforms:** Git, AWS (S3), REST APIs, Xcode