

# Andy Khau

+1 562-650-7822 | [andykhau@gmail.com](mailto:andykhau@gmail.com) | [linkedin.com/in/andykhau](https://linkedin.com/in/andykhau) | [github.com/akchro](https://github.com/akchro)

## CERTIFICATIONS & TECHNICAL SKILLS

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**Certifications:** AWS Certified Cloud Practitioner, GIAC Foundational Cybersecurity Technologies

**Languages:** Python, JavaScript, HTML + CSS, Swift

**Frameworks:** Django, Flask, ReactJS, NextJS, ExpressJS, TailwindCSS

**Tools:** Git, NodeJS, Docker, AWS S3, AWS CloudFront, AWS IAM, AWS RDS, PostgreSQL

## EXPERIENCE

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### Jr Software Developer

AMAZON

Sept 2025 – Present

Santa Cruz, USA

- Working on computer vision solutions for Amazon delivery associates.
- Implementing UI and controls for geospatial mapping in Kotlin for our companion app.
- Handling code reviews with file and line-level comments and threaded discussions to maintain the highest standards for code quality.

### Software Developer

THE LUNDQUIST INSTITUTE

June 2025 – Sept 2025

Los Angeles, USA

- Architected and delivered a full-stack CT scan review platform enabling clinicians to upload, view, edit, and approve studies end-to-end (React, Python, PostgreSQL).
- Managing computing systems to efficiently train Machine Learning models on 100,000+ CT scans, establishing a continuous feedback loop that improves model performance over time.
- Implemented idempotent job handling, retries, and back-pressure controls in Redis to eliminate duplicates and stabilize throughput under load.

### Technical Cofounder

OMNI LEARNING

May 2024 – Oct 2024

Cerritos, USA

- Cofounded service allowing students to tutor their peers, empowering tutors and clients worldwide, leading all technical roadmaps and managed the development of our core platform.
- Built Next.js and TailwindCSS frontends for tutor listings, dashboards, and account management.
- Developed a Django backend with authentication, PostgreSQL, email automation, and booking.
- Engineered AWS architecture, including S3 objects and CloudFront distribution for user uploads. Managed standardized dev environments with Docker.

### Frontend Developer

PROJECT EMPOWER

March 2023 – March 2024

Remote, USA

- Worked alongside UI/UX team to bring mock-ups to implementation using React, serving webpages to 200,000+ total users.
- Handled REST API requests from NodeJS backend and MongoDB database for authentication.
- Managed team Git repository on GitHub, reinforcing styling standards and code compatibility.
- Led and mentored 8 other frontend developers during Agile SCRUM sprints.

## PROJECTS

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**Snapsassin** | *SwiftUI, UIKit, AVFoundation, CoreImage, Supabase*

Dec 2024

- Developed a social media photo-sharing app for iOS using SwiftUI and UIKit.
- Managed camera functionality and image processing with AVFoundation and CoreImage.
- Implemented phone authentication and object storage with Twilio and Supabase

## EDUCATION

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University of California Santa Cruz

Bachelor of Science in Computer Science

Expected Graduation June 2027

Santa Cruz, CA

- **Cumulative GPA:** 4.0/4.0
- **Relevant Coursework:** Data Structures & Algorithms, Linear Algebra, Computer Systems
- **Clubs & Organizations:** UCSC ACM, UCSC Google Developer Groups