

# Pavan Rathod

Torrance, CA · (424) 475-0178 · pavanrwork@gmail.com · pavanrathod.com · linkedin.com/in/pavan-rathod-64b0b7254 · github.com/pavanrathod828

## SUMMARY

---

Computer Science student at California State University, Long Beach (Minor in Finance), building full-stack web products with Next.js, TypeScript, Python, and Flask in an AI-assisted workflow. AWS Certified Cloud Practitioner. Seeking Software Engineering internships for Summer 2026 (late-cycle) and Summer 2027 cycles.

## EDUCATION

---

### California State University, Long Beach

Long Beach, CA

B.S. Computer Science, Minor in Finance

Expected May 2028

**Honors:** CSULB President's Honor List

**Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Discrete Math, Computer Organization & Assembly, Linear Algebra, Calculus I–III, Engineering Communications (ENGR 350).

## TECHNICAL SKILLS

---

**Languages:** TypeScript, JavaScript, Python, SQL, C, HTML/CSS

**Frontend:** Next.js (App Router), React, Tailwind CSS, Motion, Jinja2

**Backend:** Flask, REST APIs, Stripe, JSON, HTTP, ffmpeg, pytest

**Cloud & DevOps:** AWS (IAM, S3, Lambda, API Gateway), Vercel, Git, GitHub, Linux, VS Code

**AI-Assisted Development:** Claude Code, Codex, GitHub Copilot, ChatGPT

**Foundations:** Data Structures & Algorithms, OOP, Input Validation, Logging, Time Value of Money, NPV/IRR

## PROJECTS

---

### Skyways Hotel — Booking Platform · Next.js, TypeScript, Tailwind, Stripe, Vercel In development · v1 May 2026

- Designing and building a first-party website and Stripe-powered booking platform for a family-owned Long Beach hotel, replacing third-party booking dependency.
- Architecting the Next.js (App Router) frontend, TypeScript domain models, and reservation flow from scratch with secure form handling and validation.
- Planning a parallel on-property ordering subsystem with separate Stripe checkout for food and services, deployed via Vercel.

### pavanrathod.com — Personal Portfolio · Next.js 16, TypeScript, Tailwind v4, Motion May 2026

- Designed and built a premium animated portfolio with custom warm-light design system, italic-serif typography, and a code-window hero.
- Implemented prefers-reduced-motion gating, focus management, mobile navigation with focus trap, and full WCAG AA color contrast across every section.
- Paired with Claude Code and Codex in VS Code throughout, reviewing every generated line before commit; deployed on Vercel.

### LBT & The Rider's Data — Web Project (ENGR 350) · HTML/CSS/JS, GitHub Pages Spring 2026

- Researched how Long Beach Transit and LACMTA's TAP system collect, retain, and govern rider data across 38+ routes and 24M annual rides; mapped two contrasting privacy regimes against California Streets & Highways Code §31490.
- Shipped a responsive, scroll-driven data-storytelling website with custom visuals, route-stop dataset, and policy comparisons (pavanrathodcs.github.io/lbt-rider-data).
- Proposed four design recommendations to close the privacy gap: separating eligibility from transactions, default 2-year retention, plain-language summaries, and cash as a privacy choice.

### VidSnapAI — AI Short-Form Video Generator · Python, Flask, ffmpeg October 2025

- Built Flask REST endpoints for upload → text-to-speech → render with request validation, file size limits, and secure filename handling.
- Orchestrated ffmpeg concat/mix/filter pipelines; added job-status polling and graceful error states for long-running render jobs.
- Improved reliability with rate limiting, exponential-backoff retries, and structured logging across the service.

## CERTIFICATIONS

---

**AWS Certified Cloud Practitioner** — Amazon Web Services, November 2025

## VOLUNTEER EXPERIENCE

---

### Library Volunteer · Los Altos Library, Long Beach Public Library 2024 – Present

- Support 15–30 patrons/week with public computers, printing, Wi-Fi, and e-resources; troubleshoot Windows/macOS/browser issues.
- Set up A/V equipment (projector, Chromecast, microphones) for community events; created reusable setup checklist that reduced recurring-program setup time.