Aditya Deshpande

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SUMMARY

Software engineer who builds, ships, and debugs production systems across the full stack. Maintains payment and CRM integrations for a live system of 100,000+ contacts, shipped features in a 200+ contributor codebase, and launched an iOS app with 7,500 active users.

EDUCATION

San Jose State University — M.S., Artificial Intelligence — Jan 2027 – May 2028 (Expected)

Arizona State University — B.S., Computer Science — Expected Dec 2026

Relevant Coursework: Data Structures and Algorithms, Software Engineering, Database Management, Operating Systems, Distributed Software Development, Programming Languages

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, C++, C#, C, SQL, Swift, HTML, CSS

Backend and APIs: Node.js, FastAPI, REST APIs, JSON, webhooks, event-driven workflows, third-party service integration, request and response validation

Frontend and Mobile: React, Angular, Next.js, Tailwind CSS, responsive design, Web Workers, SwiftUI, Xcode

Databases: PostgreSQL, MySQL, Firebase, SQL queries, data modeling, query optimization, ETL pipelines

Cloud and DevOps: AWS, AWS Lightsail, Docker, Git, GitHub, GitHub Actions, CI/CD, Linux, UNIX

Testing and Reliability: Unit testing, integration testing, end-to-end testing, regression testing, API testing, load testing, Playwright, root-cause debugging

Software Engineering: Data structures, algorithms, object-oriented design, concurrency, Agile development, code review, technical documentation

AI-Assisted Development: Claude Code, Codex, GitHub Copilot, prompt engineering, review and testing of AI-generated code

Machine Learning: PyTorch, model fine-tuning, ONNX, on-device inference

PROFESSIONAL EXPERIENCE

Sewa International Inc. — Web Development Intern, Remote [Link] — Feb 2026 – Present

- Built and maintain integrations connecting donation and volunteer forms to Stripe, Zoho CRM, and downstream AWS services across a production system of 100,000+ contacts.
- Traced a payment handoff failure through Stripe events, API payloads, and CRM updates to its root cause, then added identifier checks and transaction-status synchronization.
- Replaced repeated manual data entry with event-triggered Deluge workflows that validate, map, and update donor and volunteer records.
- Wrote Python and Pandas tooling to clean and reconcile production data, and ran browser-based QA agents and load tests to catch defects before release.

DigiClips Inc. — Full-Stack Developer, ASU Capstone, Remote [Link] — May 2025 – Present

- Owned comments, reactions, and notifications in a 200+ contributor codebase, shipping features across React and Angular interfaces, Node.js APIs, and MySQL.
- Translated sponsor feedback into scoped changes and carried them through implementation, testing, review, and integration on a five-person team.
- Tested REST responses, client-server state, and database updates, covering user-facing failure cases to protect existing behavior.
- Supported AWS Lightsail deployment and backend storage workflows, resolving build and styling failures in the hosted environment.

PROJECTS

ColorCheck — Browser-Local Machine Learning Photo Editor [Link] [Code] — Aug 2026 – Present

- Built a full-stack browser photo editor that matches color from a reference photo, keeps every edit reversible, and exports at original resolution without uploading the image.
- Moved image processing into concurrent Web Workers so the interface stays responsive, and tested mobile layouts, export consistency, and recovery when the model is unavailable.
- Fine-tuned a 128K-parameter SepLUT model in PyTorch and shipped it as a 602 KB ONNX artifact, verified against the original across six numerical-parity cases at 7–43 ms CPU inference.

Rift School Scope — iOS Student Platform, App Store [Link] [Code] — Jan 2022 – Dec 2024

- Shipped a Swift and SwiftUI iOS app serving approximately 15,000 accounts and 7,500 active users, with Firebase and REST-backed synchronization of grades and assignments.
- Maintained application behavior and data flows as the product evolved, using user feedback and reliability issues to guide improvements.