

# Dhruvil Bhingradiya

**Full-Stack & Product Developer** · Web, Mobile & Distributed Systems

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## Summary

Full-stack product developer with 3+ years of professional experience taking software from blank canvas to production. Built a complete LMS and video-streaming platform (Lux Trader), a three-sided marketplace with dynamic booking, and a client-side WebAssembly utility suite (ToolWeb). Known for extreme ownership: quickly learning unfamiliar codebases, turning ambiguous requests into clear technical specs, and shipping hardened web and mobile apps with solid documentation. Uses AI-assisted tools (Claude Code, Cursor, Copilot) with prompt decomposition, compiler and linter checks, and automated regression tests.

## At a Glance

|                       |                      |                           |                                |
|-----------------------|----------------------|---------------------------|--------------------------------|
| 3+ years              | 5+ systems           | 100% crash-free           | 3x velocity                    |
| Production experience | Delivered end-to-end | Play Store session metric | AI-assisted, verified shipping |

## Technical Skills

**Frontend & Web:** TypeScript, React, TanStack Query/Router, Tailwind CSS, WebAssembly (Rust), HTML5/CSS3, Web APIs

**Mobile:** Flutter & Dart, Android & iOS, SQLite (local-first), Riverpod & Provider, FCM push, background alarms

**Backend & Cloud:** Node.js, Express, REST APIs, Firebase, Supabase, PostgreSQL, Cloud Functions

**Media, Payments & AI Workflow:** FFmpeg & HLS, Razorpay, Stripe, optimistic locking, Claude Code, Cursor, AST verification

## Experience

### Full-Stack & Product Developer — Independent Engineering & Client Delivery

2022 - Present · Remote

- Served as end-to-end technical owner for businesses and startups: scoped specs from unstructured client conversations, drew architecture diagrams, and delivered production web and mobile apps.
- Audited, diagnosed and extended third-party codebases and APIs, resolving legacy performance bottlenecks and delivering critical integrations on tight sprints.
- Communicated through async status memos, video walkthroughs and maintenance documentation, giving stakeholders clean operational handoffs.
- Maintained automated build verification, semantic versioning and error budgets to keep live services regression-free.
- Kept 4+ hours of daily overlap with US business hours for smooth collaboration with North American teams.
- Daily toolchain: Claude Code, Cursor, Copilot, Grok and Antigravity for boilerplate, schema drafting and API wrappers; LLM-generated unit tests covering boundary conditions, plus living documentation for non-technical teams.

## Featured Projects

### Lux Trader — Trading LMS & Video Infrastructure

Full-Stack Product Developer · Client delivery, live · Flutter, Node.js, FFmpeg/HLS, Firebase, Razorpay

- Engineered a complete learning platform: production Flutter mobile app, admin web dashboard and automated Node.js video-processing backend.
- Built a Node.js microservice using FFmpeg to transcode raw lectures into multi-resolution HLS streams, removing buffering on low-bandwidth connections.
- Implemented course hierarchies, lesson progress tracking, resume-where-left-off playback, daily tips and student engagement analytics.
- Designed an admin payment module that updates Razorpay gateways and course pricing dynamically, with no mobile app redeployment.
- Wrote operational docs, database schemas and API contracts so non-technical staff can manage videos, courses and student access independently.

## Cinema & Service Multi-Role Marketplace

Platform Architect & Lead Developer · Multi-role commercial product

- Architected a three-role marketplace (customers, cinema operators, super-admins) with isolated role-based access control.
- Built a drag-and-configure hall builder so vendors can create custom seating grids, row presets and categories.
- Implemented a collision-free reservation manager with temporary checkout locks to prevent double bookings during traffic spikes.
- Created a flexible pricing engine covering category rates, showtime adjustments, weekend surcharges and platform commission.
- Delivered real-time dashboards for occupancy, revenue and category performance, with automated QR ticket generation.

## ToolWeb — Privacy-First Web Utility Platform

Creator & Lead Engineer · tool-web.dev · Live · Rust/WebAssembly, TypeScript

- Built a browser-native suite of 20+ developer and file tools (image compressor, JSON-to-Dart generator, AST transformers, regex tester) that runs entirely client-side.
- Compiled compute-heavy modules (image compression, binary conversion, parsers) from Rust to WebAssembly for near-native speed.
- Implemented JSON-to-Dart model generation and HTML-to-Flutter conversion with instant live preview.
- Eliminated server and bandwidth costs while keeping all user data private on the device.

## StyleCalc & TaskFlow — Mobile, Local-First Apps

Mobile Engineer · Google Play · Flutter & Dart

- Shipped StyleCalc, a custom-styled calculator, to Google Play with a 100% crash-free session metric, fast touch response and persistent theming.
- Designed TaskFlow, an offline-first productivity app with task states (scheduled, completed, overdue), persistent local alarms and on-device weekly stats.
- Structured Flutter widget trees with granular state isolation to avoid needless rebuilds and save battery and CPU.

## Engineering Methodology: AI-Assisted Development

- **Prompt decomposition:** break product specs into deterministic interfaces and state machines before generating code.
- **Compiler and AST checks:** strict TypeScript, the Dart analyzer and linter gates catch hallucinations early.
- **Test synthesis and CI:** generate regression tests and verification harnesses for regression-free releases.

## Foundations & Values

- **Foundations:** data structures, OOP, distributed systems and database design.
- **Values:** extreme ownership from concept to post-release monitoring, no finger-pointing, fast turnaround.
- **Availability:** open to remote roles worldwide, with US ET/PT overlap.