Vishrut Jha

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Experience

Prickly Pear Health Inc. **July 2024 – Present**
Founding Engineer Phoenix, AZ

- Scaled a voice-first brain health iOS app for women in perimenopause from zero to **10,000+ App Store users** (**99.9% backend uptime**, **98% crash-free sessions**), owning product with the founder: conducted user interviews, collected TestFlight and App Store feedback, and set roadmap priorities.
- Architected the iOS foundation in SwiftUI, Swift Concurrency, and SwiftData, including offline-first sync with idempotency/backoff, HealthKit trends in Swift Charts, and AVAudioEngine/SpeechAnalyzer voice capture; built push and personalized scheduled notifications, in-app nudges, and Live Activities for journaling.
- Built a privacy-preserving, multi-provider inference path resilient to provider outages: PgVector RAG with automatic failover across GPT-5.6 Terra, Gemini 3.7 Flash, and on-device Foundation Models, cutting p95 **time-to-first-token from 1.8s to 280ms** and per-user LLM spend **roughly 50%**.
- Provisioned HIPAA-compliant AWS (ECS, RDS, S3, Secrets Manager) with Terraform; used Sentry, MetricKit, and Mixpanel telemetry to ship three 2025 performance wins: **340ms faster cold start**, **42% lower peak memory**, and **28% better battery life**.

Dhan AI Pvt. Ltd. **June 2023 – May 2024**
Software Development Engineer - I Tempe, AZ (Remote)

- Migrated **50,000+ users** from SAP Gigya to Firebase Auth with zero downtime or data loss; a kill-switch and custom auth-state layer cut **sign-in time by 40%**.
- Implemented event-driven sync between iOS and backend services using RabbitMQ, Celery, and Redis cache-aside, keeping **p95 under 200ms** during bursty load and eliminating **35%** of redundant work.
- Delivered a Next.js operations dashboard with interactive analytics and a JWT-claims inspector, cutting **on-call resolution time by 60%** and letting support manage 2FA/SSO state without engineering help.

Compliance Group Inc. **June 2019 – July 2021**
Full-stack Developer Hyderabad, India

- Modernized backend services for *FDAlytics* and *iQuality*, moving high-volume workflows from Django REST to GraphQL in Python; batched resolvers killed N+1 queries for **20% higher throughput** and faster client dashboards over multi-million-row regulatory data.
- Led data categorization on a six-engineer team using Azure Cognitive Search, improving search recall and latency across large corpora; owned PyTest/Jest/GitHub Actions CI and **halved deploy incidents** with required checks and canary rollouts.

AuthBase Inc. **September 2018 – May 2019**
Software Engineer Hyderabad, India

- Created *LiveShield*, an ELK-backed security analytics platform that scanned **10,000+ DLLs**, streamed socket.io alerts, and used Nessus/NMap plus NVD/CVE feeds to cut **analyst triage time by roughly 40%**.

Education

Arizona State University, *Ira A. Fulton Schools of Engineering* **August 2021 – May 2023**
Master of Science in Computer Science, **GPA: 3.89** Tempe, AZ

- Relevant Coursework: Distributed Systems / Data Processing at Scale, Software Security, Applied Cryptography, NLP.
- TA for FSE 100: Introduction to Engineering; helped students build with MATLAB, Python, Lego, and Raspberry Pi.
  Fall 21 - Spring 22

Panjab University, *University Institute of Engineering and Technology (UIET)* **August 2014 – May 2018**
Bachelor of Engineering in Computer Science and Engineering Chandigarh, India

Skills

iOS: Swift, SwiftUI, Swift Concurrency, SwiftData, Swift Testing, AVFoundation, SpeechAnalyzer, HealthKit, MetricKit, Swift Charts, Foundation Models, MLX Swift, WidgetKit
Architecture: MVVM, Coordinator, offline-first sync, dependency injection
Backend & Cloud: PostgreSQL with PgVector, Redis, AWS (ECS, RDS, S3), Terraform, Xcode Cloud, Bun/Hono, Python/Django
AI: RAG, multi-provider LLM orchestration (OpenAI, Anthropic, Google)
Projects: *CabinLink* (map-first flight companion shipped across iPhone, iPad, Mac, Apple Watch, and Vision Pro; MapKit, WeatherKit); *TestFlight PM* (GitHub Action, App Store Connect API + multi-LLM); contributor to *EngineeringMode* (MetricKit, SwiftData) and *Programming Language Benchmarks* (Swift)