Vishal Bharti

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Fourth-year CS student and technical co-founder of yourCB, an AI fashion-discovery app in closed beta; shipped production Next.js at K2Studio and Python/SQL ETL at EY; two Android apps live on Google Play. Seeking a Summer 2027 SWE or data internship.

EDUCATION

Toronto Metropolitan University — Toronto, ON Expected Apr 2028

B.Sc. (Hons) Computer Science — Dean's List 2024–25 and 2025–26

- Coursework: OOP (Java), Data Structures (C), Databases (SQL), Software Engineering, Data Science, Probability & Statistics

TECHNICAL SKILLS

Languages: TypeScript, Python, Java, Kotlin, JavaScript, SQL, C, HTML/CSS
Backend & Data: Postgres (pgvector/HNSW, row-level security), FastAPI, Node.js, REST APIs, AWS S3
Mobile & Web: React Native (Expo), Android SDK, React, Next.js, Tailwind CSS, Firebase Auth/Firestore
AI/ML: SigLIP image embeddings, vector search, Claude API (vision), OpenAI API, pandas, scikit-learn
Infra & Ops: Supabase, Modal (serverless GPU), Trigger.dev, Sentry, PostHog
Testing & Tools: Jest, pytest, GitHub Actions CI, Git/GitHub, Linux

EXPERIENCE

yourCB — Toronto, ON Jun 2026 – Present

Co-Founder & CTO — top-10 finish at DMZ (TMU incubator) Round 1 pitch, Jul 2026

- Built every layer of an AI fashion-discovery app: Expo/React Native client, Supabase Postgres (pgvector HNSW), FastAPI REST service on Modal GPUs (768-d SigLIP embeddings, Claude vision moderation).
- Wrote the taste-learning loop as one idempotent Postgres function (append-only ledger, so repeated taps and retries never double-count); in a seeded test, 3 likes of one style raised its similarity 0.006 → 0.28 and its feed share 11 → 19 items.
- Built a nightly catalog sync: a retryable Trigger.dev job pulls ~8,400 products from 35 brands' public Shopify products.json (allowlisted, robots.txt honoured, 1 request/s per store) and embeds each.
- Shipped the closed-beta backend (Oct 2026) as sole engineer: row-level security on every user table (verified with a two-account test), GitHub Actions CI (Jest, pytest), end-to-end test including full account deletion.

K2Studio — Toronto, ON May 2026 – Jul 2026

Frontend Developer (Contract)

- Shipped authentication flows, onboarding and reusable React components in a production Next.js app.
- Turned Figma designs into responsive multi-step forms with SVG graphics; fixed production defects.

CoolBoots Media — Gurugram, India Jun 2024 – Aug 2024

Project Intern, Android/AI Tooling

- Built Prompt Studio, a Java Android app (OkHttp, Gson) that calls the OpenAI Chat Completions API with a chosen model, temperature, top-p and max tokens; used in-house, now in closed testing on Google Play.

Ernst & Young (EY) — Gurugram, India Mar 2023 – May 2023

Data Engineering Intern

- Automated GST ingestion and ETL for EY's Digi GST tool (Python, SQL, AWS S3) across client datasets.
- Cut manual processing ~25% via schema, null and type validation; added failure logs, quality checks.

Times Internet (MensXP) — Gurugram, India Sep 2022 – Dec 2022

Tech Intern, Mobile QA & Analytics

- Reproduced high-impact defects, validated fixes with developers, and surfaced UX insights from Android usage data.

MX Player — Gurugram, India Feb 2022 – Aug 2022

Research Assistant, Mobile Reliability

- Triaged crashes, wrote reliable repro steps and ran regression checks over 7 months; helped cut crash frequency ~15%.

PROJECTS

Android Apps on Google Play — Kotlin, Firebase, AdMob — 2 live, 2 in closed testing (PARAMPITA) Google Play

- Block Merge Puzzle 3D (Kotlin, live): built a pseudo-3D Canvas game view with drag-and-drop ghost preview and cascading merges; Firebase Auth, Firestore global/country/city leaderboards, AdMob rewarded ads.
- Snake and Ladder (Kotlin, live): 2–4 players or vs. computer, three difficulty levels, token capture, new board each game.
- Media Cleaner for WhatsApp (closed testing): scans the WhatsApp media folder and flags duplicates (keeps the oldest copy), videos over 100 MB, old PDFs, empty folders, and greeting/meme images detected by text recognition.

KJAR Eyewear — React, Vite, Redux Toolkit, MUI, Tailwind CSS GitHub

- Led a 3-person team to launch KJAR's React storefront: catalog, cart, Razorpay checkout; brand later moved to Shopify.