

ALI KHAIRREDDIN

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EDUCATION

Wilfrid Laurier University

Bachelor of Science in Computer Science

Waterloo, ON

Expected Summer 2027

SELECTED PROJECTS

Vibe Check - Ad Compliance Creative Reviewer | [Live](#) | [GitHub](#)

2026

Python, FastAPI, React, TypeScript, Cloudflare Workers/Containers, Convex, OpenRouter

- Shipped a cloud-native reviewer for video, image, and ad-copy inputs; combines ffmpeg/ffprobe media extraction, Tesseract OCR, Whisper speech-to-text, capped vision analysis, and strict JSON output into evidence-backed compliance reports.
- Reworked upload and worker queues into bounded four-way parallel pools, with retryable 8 MB chunks for files up to 200 MB, so 20-item batches no longer process serially.
- Integrated Google Drive search/import across 122 creatives using exact file IDs, durable Convex job history, Telegram alerts, and temporary-artifact cleanup; the production pipeline passes 55 backend tests.

TabMind - AI Chrome Tab Organizer | [Web Store](#) | [GitHub](#)

2025 - Present

TypeScript, React, Chrome Extension MV3, Cloudflare Workers, Convex, Stripe

- Published and iterated a Manifest V3 extension that classifies open tabs and organizes them into topic-based Chrome groups, with a companion dashboard and public Chrome Web Store releases.
- Built a TypeScript monorepo spanning the extension, React dashboard, Worker API, Convex backend, and shared validation; implemented authentication, usage/session tracking, cached classification, and a Stripe subscription flow.

Finance Operations Dashboard | [Live](#) | [GitHub](#)

2026

TypeScript, React, Convex, Cloudflare Workers, REST APIs

- Built and deployed a dashboard that imports Wise statement CSVs, deduplicates transaction IDs, reconciles companies and categories, and creates local invoice drafts without combining unlike currencies.
- Hardened financial state with runtime-only secrets, service-authenticated Convex calls, stale-write detection, atomic invoice reservations, and a 13-test regression gate.

LibaBite - Restaurant Operations Prototype | [Order App](#) | [Work App](#) | [GitHub](#)

2026

TypeScript, React, Convex, Stripe, Cloudflare Workers/Pages, GitHub Actions

- Developed role-aware workflows for website, QR, and dine-in orders, kitchen stations, inventory, reservations, delivery, staff access, and manager reporting.
- Implemented Convex shared-state sync with browser fallback, Stripe/iDEAL checkout verification, an explicit payment ledger, and queued receipt-printer jobs; 28 domain tests cover payments, routing, reservations, inventory, and permissions.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, SQL, Swift

Frontend: React, TanStack Router/Query/Table, Tailwind CSS, shadcn/ui, Vite, HTML/CSS

Backend & Data: FastAPI, Node.js, Convex, REST API design, relational data modeling

Cloud & Tools: Cloudflare Workers/Containers, GitHub Actions, Docker, Git, Chrome Extensions (MV3)