PANKAJ KUMAR VERMA

AI / Full-Stack Product Engineer

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PROFESSIONAL SUMMARY

Product engineer with nearly four years building and shipping production systems end to end, with **488 merged pull requests** and **573 peer reviews** across six engineering organisations. Recent work is applied LLM systems: an **OpenAI ReAct engine** for profile enrichment, an agentic booking-support assistant with human escalation, a **Gemini video-analysis worker**, and a vector-indexing pipeline powering **semantic candidate search** — shipped alongside a Stripe Connect marketplace with destination-charge payouts and webhook-verified fulfilment. Works the whole path: React and React Native on the front end, Node.js/TypeScript and Python behind them, through Docker and CI/CD to App Store and Play releases. Comfortable owning a codebase from empty repository to live product, and treats application security as part of delivery rather than a later pass.

488	573	2,958	14	6
MERGED PRS	PRS REVIEWED	CONTRIBUTIONS	PRODUCTION REPOS	ENG. ORGS

CORE TECHNICAL SKILLS

AI & LLM systems: OpenAI (ReAct agents, streaming), Google Gemini, vector & semantic search, embeddings and retrieval, agentic support flows

Languages: TypeScript, JavaScript (ES6+), Python, HTML5, CSS3

Frontend: ReactJS, Next.js, Astro, Vue.js, SCSS/LESS

Mobile: React Native (New Architecture), Expo, React Native CLI, Kotlin & Swift interop, Fastlane, App Store & Play release

Backend: Node.js, Python/Flask, MongoDB, Redis, BullMQ, REST APIs, background workers, multi-tenant architecture

Payments: Stripe Connect — destination charges, Checkout, signature-verified webhooks

Infrastructure: Docker, GitHub Actions, CI/CD, DigitalOcean, AWS CloudWatch, SonarQube, Mocha/Chai, Cypress

Practices: code review, Agile, RBAC, auth & application security, analytics instrumentation

PROFESSIONAL EXPERIENCE

Product Engineer — Better Software (Jalan Technologies)

Nov 2022 – Aug 2026

bettrsw.com · Remote · Software Engineer, Nov 2022 – Mar 2026 → Product Engineer, Mar 2026 – Aug 2026

Core engineer on **Operate**, the company's Python/TypeScript internal platform, and on the shared **node-react**, **flask-react** and **react-native** service templates that seed every new client project. Client products below delivered end to end as engagements.

Recco (Hi5Talent) — talent & coaching marketplace — 2024 – 2026

reccojoy.com · 403 pull requests authored, 342 merged and 362 reviewed across the mobile, web and API codebases

- **Built the AI feature set:** an **OpenAI ReAct engine** for résumé and LinkedIn enrichment, a streaming in-app AI companion, an agentic booking-support assistant with automated answers and human escalation, a **Gemini video-analysis worker** scoring user pitch reels, and a vector-indexing worker powering **semantic candidate search** with an AI deep-search mode — matching on skills, experience and behavioural signals rather than keywords.
- **Designed and shipped the coach/consultant marketplace across the full stack** — API, React Native app and web. Customers browse and book coaches in-app; coaches onboard self-service and manage payouts. The backend alone spanned 5,357 lines across 63 files with 25 integration specs.
- **Built the Stripe Connect payments layer:** coach onboarding, Checkout, in-app payout setup and account-status handling, using **destination charges** to split a configurable platform fee to Recco with the remainder to the coach. Bookings are marked paid **only from signature-verified webhooks** — never the client redirect — covering settlement, expiry, async failure, refund and account-update events, with all amounts computed server-side.
- **Led an application-security hardening pass**, closing **IDOR vulnerabilities across six subsystems** — credentials, comments, conversations, work experience, elevator pitches and user skills — by enforcing ownership at both route and service layers; added Cloudflare Turnstile to stop OTP exploitation.
- **Built the multi-tenant employer platform from an empty repository** — signup and email verification, organisation onboarding, opportunity authoring with draft/publish and visibility controls, applicant review pipelines, automated post-deadline closure, and a settings and dashboard layer.
- **Built the fan-out-on-write feed** — per-user timelines materialised by paired workers on every graph mutation (follow/unfollow, hashtag follow/unfollow, action/undo, entity creation) over a BullMQ event bus, with retroactive removal when an entity turns private or an account is blocked. Delivered the **Communities** product end to end alongside it — membership and join-request workflows, privacy controls, admin announcements and invitations.

- **Sole author of the Recco Aura React Native app (150 commits)**, owning iOS and Android releases through the App Store and Play Console: Android 15 (API 35) targeting, migration to the system photo picker for Play compliance, vision-camera and New Architecture migrations, deep linking, and push-notification routing.
- Improved delivery and retention — per-PR Android builds posting Play Internal App Sharing links, changed-file linting in CI, and Mixpanel cohort sync to OneSignal push segments, contributing to a 30% engagement improvement.

My Solar RX — solar customer-management platform 2026

Python/TypeScript backend + React Native client · 16 of 17 pull requests merged in a three-week engagement

- Shipped a **Redis-cached power-flow sync worker**, authenticated daily and hourly energy-read endpoints, and a hard cutover of production charts and neighbour comparisons onto backend energy stores.
- Upgraded **React Native 0.77.3 → 0.85.3** (New Architecture, React 19); added OneSignal push and email delivery, deep-link password reset with web fallback, a daily admin alert digest, and cleared an App Store rejection (ITMS-90738).

Kizuna Care — care-coordination platform 2025

React Native application and shared CI/CD tooling · 12 pull requests merged, 23 peer reviews

- Delivered appointment payments, family/caregiver booking workflows, caregiver matching within a 200-mile radius, email and SMS notification on booking decisions, a 24-hour appointment reminder worker, and MongoDB connection caching.

Pinch Lifestyle — hospitality staff management, live on Google Play 2023 – 24

91 pull requests merged, 163 peer reviews — reviewed more code than authored

- Built the platform from first API endpoints — auth, OTP request and verification, users, facilities — through to **WhatsApp Business Cloud API** integration covering opt-in, interactive message handling and WABA-compatible media compression, plus node geotagging and multi-facility switching.
- Ran the full production domain migration across web and mobile clients; also built a product-recommender proof of concept injecting targeted ads from blog content analysis.

Earlier: Software Engineer, Artica (Apr – Sep 2024) · Software Engineer, Sunny Energy LLC (Nov 2022 – Aug 2023)

SELECTED WORK

- **Operate** — organisation-wide internal developer platform. Contributed pluggable **MySQL and PostgreSQL read-only database providers**, custom GitLab host configuration, an **AWS CloudWatch log provider**, proactive error monitoring via CloudWatch alerts, and Slack integration in the settings UI.
- **github-ci** — shared CI/CD action library used across the organisation's repositories. Added test-coverage export on pull requests, fixed caching in monorepo setups and Docker image cleanup, and decoupled the ci_version input; pipeline work improved deployment speed by ~25%.
- **Open source** — **automated-ai-code-review**, a GitHub Action running AI-assisted review on pull requests; **html_to_quill_delta**, a Python library converting HTML to Quill Delta rich text.
- **React Native library maintenance** — maintained forked patches keeping react-native-fast-image, react-native-video, react-native-image-picker, art compatible with RN 0.75 in production; opened an upstream compatibility fix to react-native-fast-image.

EDUCATION

Bachelor of Technology, Computer Science & Engineering 2019 – 2023

Babu Banarasi Das Northern India Institute of Technology, Lucknow

CGPA 8.04 / 10 — First Division with Distinction

CERTIFICATIONS & RECOGNITION

- Triplebyte Certified
- Web Development (Django, AI-based) internship — Psyber Incorporation
- Web Development internship — Borgfy
- GitHub achievements: Pull Shark ×3, Pair Extraordinaire ×3, Quickdraw, YOLO