

ALAN ABISHEK

Software Development Engineer

thisisanabishek@gmail.com | +91 7411 490454 | Bengaluru, India 560085 | [linkedin.com/in/alan-abishek-dev](https://www.linkedin.com/in/alan-abishek-dev) | github.com/ALAN-PSUDO

PROFESSIONAL SUMMARY

Software Development Engineer building Python, FastAPI, and PostgreSQL systems for web, mobile, and workflow automation. Shipped production features across React Native (Expo) and Next.js, including auth, transactional email, media delivery, and tax automation. Cut GST filing time from 4 days to 4 hours (95% faster) by building a reconciliation and invoice-classification pipeline.

SKILLS

Languages & Databases: Python, TypeScript, PostgreSQL

Frameworks & Tools: FastAPI, React Native (Expo), Next.js, Docker, Firebase, Railway, RevenueCat, CI/CD (GitHub Actions), Prometheus, Grafana

Concepts: API Development, System Design, Authentication (OAuth 2.0), Database Schema Design, Cross-Platform Mobile Development, Workflow Automation, LLM Integration, Automated & Fault-Injection Testing

PROFESSIONAL EXPERIENCE

Software Development Engineer (SDE) Intern | Passiqo Technologies — Remote

Feb 2026 – Present

- Built and shipped the Pulsr app in React Native (Expo) with NativeWind, including light/dark theming and custom Vault cards for X, LinkedIn, Reddit, Pinterest, and Instagram.
- Fixed Android WebView and VideoLightbox bugs in the Reddit media pipeline, along with caching and aspect-ratio issues that were breaking video playback.
- Set up transactional email workflows in Mailtrap for welcome series, system notifications, and payment reminders.
- Added magic-link and SSO login with deep-link routing, working with leadership to keep the implementation aligned with compliance requirements.
- Worked in a 3-person feature-branch Git workflow with daily pull requests, using GitHub Actions to automate checks before merges reached main.
- Reviewed teammates' pull requests and joined daily engineering syncs on design decisions and upcoming features, keeping the team aligned before code shipped.

AI Agent Developer Intern | R.K. Tantry & Co. — Bengaluru (Part-time)

Apr 18, 2026 – Jun 1, 2026

- Built intelligent data adapters using LLMs to extract and auto-classify invoice data from PDFs, Excel, and Tally into B2B, B2CL, and Export categories.
- Set up autonomous AI agents in n8n to digitize financial, tax, and audit workflows that were previously handled manually.
- Built an automated reconciliation engine that cross-checks claimed tax credits against government portal data to catch mismatches early.
- Cut GST filing time from 4 days to 4 hours (95% faster) by combining the reconciliation engine with automated invoice classification, removing manual spreadsheet work from the process.

EDUCATION

Bachelor of Computer Applications (BCA)

PES University, Bengaluru — Graduated June 2026

PROJECTS

Query-mint — Natural-Language-to-SQL Workspace github.com/ALAN-PSUDO/Query-mint

- Built an AI-driven NL-to-SQL tool integrating the Google Gemini API with static schema context injection and a resilient rule-based fallback for API rate limits.
- Implemented strict security guardrails against mutating SQL commands and row truncation to keep generated queries safe to run.
- Optimized database performance using psycopg2 connection pooling and pandas result frames, enabling reliable live demo modes.

Tech: React 19, TypeScript, FastAPI, PostgreSQL, Google Gemini API

HydraTask — PostgreSQL-Backed Distributed Job Engine & Control Plane github.com/ALAN-PSUDO/HydraTask

- Designed a high-throughput, fault-tolerant distributed job engine backed by PostgreSQL (FOR UPDATE SKIP LOCKED), monitored via Prometheus and Grafana dashboards.
- Implemented DAG workflow processing for fan-in/fan-out execution with dynamic transitions, secured by HMAC-SHA256 webhooks and SSRF protection.
- Validated fault tolerance with chaos-testing CI that SIGKILLS workers mid-flight — zero jobs lost.

Tech: Python, FastAPI, PostgreSQL, Docker, Prometheus, Grafana

TagAI — Automated Fashion Tagging & Pricing Platform github.com/ALAN-PSUDO/Automated-Product-Tagging-for-E-commerce

- Engineered a multi-modal vision pipeline combining a fine-tuned Keras CNN (96% top-3 accuracy) with an XGBoost regression model for garment price estimation.
- Built a Flask REST API and React 18 UI, containerized via Docker Compose with SQLite feedback logging for active learning.

Tech: Vision CNN, OpenAI CLIP, XGBoost, Flask, React 18, Docker