Mohammed Rahmat Azam

Software Engineer | Backend, AI and Platform Engineering

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Summary

Software engineer with 3 years building and operating production systems people use daily. I design backends, data pipelines and AI search, and run the infrastructure they live on: a visual search engine over **10,000+** SKUs live for **9 months** at **84%** mean top-1 similarity, Laravel and Python services built on SOLID principles, and zero-downtime CI/CD on servers I manage myself. Co-founder of **Platho AI**.

Experience

Abreez Group Riyadh, Saudi Arabia (Hybrid)

Software Engineer *Jul 2023 - Present*

Built and operate: abreezgroup.com | abreezstock.com | abreezstore.com | abreeztaamir.com | fourseason-bags.com

- **AI visual search in production.** Find any of **10,000+** SKUs from a photo in one query. **CLIP** (ViT-L/14) embeddings in a **Qdrant** vector index with HNSW tuned for recall against latency; model chosen by benchmarking against DINOv3 on our own catalogue rather than published scores. Instrumented from day one: **3,201** searches from **42** users, **84%** mean top-1 similarity, under **1%** low-confidence.
- **Data ingestion pipeline.** Bulk ingestion of **10,000+** supplier SKUs arriving in a different format from every vendor: schema and colour resolution, photo-based matching to existing records, and a review queue for low-confidence cases instead of letting bad data through.
- **Laravel/PHP applicant-tracking platform.** MySQL/Postgres schema with **Eloquent** models, form requests, policies and role-based access; queued processing with **Redis**; uploads hardened with CSRF protection, rate limiting, signed URLs and audit logging. **300+** applications across **15** roles, HR screening time down **35%**.
- **Commerce and inventory platforms.** Rebuilt the main platform from WordPress on **PostgreSQL** and Payload CMS with a **REST API** layer and RFQ engine; **81** quote requests in month one, load time **9.4s to 439ms**. Built a stock-audit platform on **Prisma** that cut SKU onboarding time **70%**.
- **Infrastructure and DevOps.** Operate everything on self-managed **Linux**: **Docker**, PM2 clustering, **Nginx**/PHP-FPM, Cloudflare, automated backups and zero-downtime deploys via **GitHub Actions**. Storage cost cut **40%**.

Platho AI | platho.io

Co-Founder *2025 - Present*

- Built a tool that rebuilds live websites as production-ready code by combining **LLMs** with a custom capture layer that instruments the running page rather than a screenshot, recovering runtime state a static image cannot expose. Live client sites shipped.
- Built automated regression testing as a quality gate: every rebuild is diffed against its reference and blocked if it fails. Benchmarked across **650+** production sites including Stripe and Figma.

Projects

Multimodal Retrieval Pipeline | GitHub

- Async **Python** pipeline running as **Docker** containers and **Kubernetes** CronJobs, archiving **2,800+** media files, then made searchable: **Whisper** transcription, embeddings into a vector index, **CLIP** keyframe search, and **HDBSCAN** topic clustering. Deployed with **Ansible**. Saved **200+** hours of manual work.

Privacy-Preserving Demand Forecasting (BSc Thesis)

- Forecast demand over **2.8M** trip records: **SARIMA** beat Prophet and ARIMA at **12.4%** MAPE; a **differential-privacy** layer cost **28%** RMSE at epsilon=1.0. Unit-tested with **pytest**.

Education

Eötvös Loránd University (ELTE), *BSc Computer Science*, **GPA** 4.8/5.0 Budapest *Graduated Jun 2026*

Stipendium Hungaricum scholarship recipient (Hungarian government, competitive award).

Achievements

Security research: **$600** in bug bounties for a session-fixation/MFA-bypass chain (**CWE-384**) and an **OAuth PKCE** gap in Hytale's account system, plus an accepted Bugcrowd finding on JustEat Takeaway. **Industry:** Represented Abreez at the **PSI** trade show in Germany.

Skills

Languages: Python, PHP, TypeScript, SQL, Java

Backend & data: Laravel, Node.js, REST APIs, PostgreSQL, MySQL, SQLite, Redis, Prisma, ETL pipelines, OOP, SOLID, design patterns

AI & search: embeddings, vector databases (Qdrant, HNSW), CLIP, Whisper, HDBSCAN, forecasting

Infrastructure: Docker, Kubernetes, Terraform, Ansible, CI/CD, Linux, Nginx, pytest **Frontend:** React, Next.js