Affan Thameem

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Experience

Ampliwork **May 2026 – Present**

Forward Deployed Engineer (Co-op) *Montreal, QC*

- Delivered a self-serve video-ad studio for a leveraged-ETF issuer as primary backend author (**26 of 28** commits) by shipping a **FastAPI** + **Next.js** portal with **Creatomate** templates, **ElevenLabs** voice cloning, and **Kling** image-to-video on **S3**/**ECS**.
- Screened every user-edited ad script against **SEC**/**FINRA Rule 2210** before render by pairing a deterministic rules pass (banned claims, required disclosures) with a second **LLM** reviewer pass, logging every verdict to a **Postgres** audit trail with CSV export.
- Turned a **SharePoint** archive of support calls into searchable, speaker-labelled transcripts for a Japanese industrial pump OEM by building an idempotent **AssemblyAI** → **S3** pipeline and an ERP unit-history integration (invoices, RMAs, part swaps) feeding the team's hybrid **RAG** knowledge base.
- Automated support-ticket routing to **5** owning teams by building a **TypeScript** webhook service that runs **Desk365** tickets through an AI tagger (**0.65** confidence floor) and opens **Asana** tasks with custom fields, plus a backfill script and **8** tests.
- Resolved high-priority client AI incidents within a **24-hour** SLA by triaging with stakeholders and shipping patches, rolling Medium/Low fixes into **bi-weekly** releases.
- Moved a follow-on engagement from discovery to scoped work by writing **PRD** inputs and leading **weekly** PMOs and client demos, while mentoring an intern through tasking and code review.

Full-Stack Engineer *May 2025 – May 2026*

- Automated **$250M+** in investment transactions across **2,000+** subscription agreements for a **$1T+ AUM** asset manager by building **Emma** (Outlook intake, fund classification) and **Oslo** (field extraction, human-in-the-loop review, versioned audit trail).
- Reduced per-document handling **93%** (30 min to under 2 min) at **99.37%** extraction and **98.98%** classification accuracy by owning full-stack delivery on both agents and running evals on scanned documents.
- Diagnosed from **270** production emails that **21.1%** missed the 30s hand-off budget (p95 **604s**) and **8.9%** double-submitted, then fixed both with a **Postgres** advisory lock and submission triggered on every classification outcome.
- Gave ops and executives live routing-accuracy, trade-volume, and processing-time visibility by building the Oslo KPI dashboard (**29 of 31** commits) in **React**/**TypeScript** with **Recharts**, filters, and one-click PDF export.

Frontend Developer *Nov. 2024 – May 2025*

- Created a **10+** component **React**/**TypeScript** library reused across **20+** agent workspaces by standardizing UI primitives, **Next.js** parallel routes for zero-reload switching, and **Recharts** KPIs; accelerated client sign-off with prototypes and MVPs.

Education

Concordia University **Expected Dec. 2026**

Bachelor of Computer Science *Montreal, QC*

- **Coursework:** Data Structures & Algorithms, Machine Learning, Data Analytics, Operating Systems

Projects

[word game] | *word-game.dev* **Python** | **FastAPI** | **Next.js** | **PostgreSQL** | **WebSockets**

- Shipped a bilingual (EN/FR) word game with **4** modes to production, validating guesses against **245k** words and serving **718** curated answers, on **FastAPI**/**Next.js**/**PostgreSQL** with pre-deploy **Alembic** migrations on **Railway**.
- Built server-authoritative 1v1 Versus over **WebSockets** (**1 Hz** HP drain, deadline-checked guesses, no repeated words across rematches), covered by **175 pytest** tests.

Technical Skills

Languages: Python, TypeScript, JavaScript, Swift, Go

AI / ML: LLM agents, prompt guardrails, model evals, OpenAI Vision, OCR (Tesseract, PyMuPDF), AssemblyAI, ElevenLabs, Kling, PyTorch

Frameworks: FastAPI, Next.js, React, SQLAlchemy, Alembic, WebSockets, REST

Cloud / Data: PostgreSQL (RDS), AWS (ECS, S3), Azure (MS Graph), SharePoint, Docker, Railway

Certifications: AWS AI Practitioner, AWS Cloud Practitioner