

# Anket Patil

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## EDUCATION

George Washington University

Master of Science, Computer Science

August 2024 - May 2026

Washington, DC

- **GPA: 3.7/4.0; Magna Cum Laude**

## WORK EXPERIENCE

LAiSER

June. 2025 – Present

Research Assistant

Washington, DC

- [LAiSER](#) is a Gates and Walmart backed research lab that uses AI to extract and align skill intelligence from unstructured data, closing the gap between learning and earning.
- Shipped open-source [Extract Module](#) (serving 5+ organizations in production), an LLM-powered pipeline that parses unstructured text (resumes, syllabi, job postings) into structured Knowledge, Skills & Tasks (KST).
  - **Stack:** PyTorch, Hugging Face Transformers; Sentence-Transformers (embeddings); FAISS (vector database); Neo4j (knowledge graphs); vLLM (LLM inference); GitLab CI/CD
- Architected and owned Dockerized FastAPI service on AWS (ECR,EC2) to extract skills from credential content.
  - Handles 50K+ requests/day with <200ms p99 latency

EDU.IO Labs

Jan. 2023 – May. 2024

Research Engineer

Remote

- Engineered full-stack platform AI-powered LMS (learning management system) enabling instructors to generate courses on the fly, and engineered a RAG chatbot that answered learner questions grounded in course materials.
  - Stack: Next.js, Node.js, PostgreSQL, GraphQL, OpenAI API (GPT-3.5/4, embeddings), Pinecone, Azure TTS
  - 200+ courses generated | 25K+ learner interactions | 4.2/5 avg rating for chatbot on 1K+ learner interactions

## PROJECTS

[LangTrail](#)

May 2026

**Stack:** Rust, TypeScript, React, PostgreSQL, Vite, Docker, Kubernetes, Prometheus

- Architected a Rust-based reverse proxy that captures AI agent traffic without SDKs or code instrumentation-enabling transparent monitoring of LLM agent systems without modifying existing codebases.
- Designed an LLM-assisted review layer that generates critiques, suggested labels, failure signals, and confidence scores while keeping human approval as the final decision.
- Added a human-in-the-loop pipeline that converts agent traces into training datasets for RLHF and AI agent evaluation.

NLX - Job Knowledge Graph Pipeline

March 2026

Python · vLLM · Llama 3.1 · FAISS · Neo4j · Kafka · Modal

- Designed and Shipped a data ingestion pipeline that processes 2M job postings/day to extract and structure skills, knowledge, and tasks into a graph.
- Scaled LLM inference to **800K unique jobs/day** using vLLM with async batch workers on serverless GPU cloud.

## Awards

- [1st Place – UN "Ahead of the Storm" Hackathon:](#) Built a geospatial child vulnerability system for Cyclone Amphan using Python, GeoPandas, Rasterio, and Plotly. Quantified 494K+ children at risk and 666 critical facilities across Bangladesh; delivered interactive dashboard to UN officials.
- **1st Place – GW GeorgeHacks:** Built an LLM-powered metadata automation system for open-source GitHub projects using Python, LangChain, and GitHub API.

## Skills and Interests

- **Technologies:** Python, PyTorch, LangChain, Pytest, React, TypeScript, FastAPI, PostgreSQL, GraphQL, Rust, Docker, Kubernetes, Redis, Kafka, FAISS, AWS, Git
- **Interests:** Poker; Chess, Hiking; Open Source; Hackathons; Reddit; *Friends*