

Tanya Nair

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EDUCATION

The Johns Hopkins University

Baltimore, MD

B.S. Computer Engineering, Whiting School of Engineering

- Relevant Coursework: Data Structures and Algorithms (Java), Intermediate Programming (C/C++, Linux), AI for Biomedical Signals, Digital System Fundamentals
- Activities: HopHacks Organizing Team, Mars Rover Team (power systems design, circuit design, soldering), CanSat Team (sensor subsystem and electrical power system design, Top 20 in the US)

SKILLS

- **Programming Languages:** Python, SQL, Java, C/C++, R
- **Technologies:** RAG & agentic systems (OpenAI Agents SDK, LangChain-style orchestration), Neo4j, FAISS, n8n, AI-assisted development (Claude Code, Copilot), React.js, Flask, AWS, Jenkins (CI/CD), Git, Linux

EXPERIENCE

Chewy — Data & AI Innovation Team

Bellevue, WA

AI Technologist Co-Op

06/2026 – Present

- Prototype agentic AI systems end-to-end from one-sentence problem specs, owning problem scoping, architecture, implementation, and stakeholder demos
- Design, build, and deploy (Jenkins CI/CD on AWS) a pet-travel requirement tool: Python, live crawler with hybrid spaCy/GLiNER extraction stack surfacing 30+ countries' import/export policies
- Sync directly with the Vet Travel Concierge team (of 40+ DVMs) to translate common pain points into features and iterate on product design; replace a 3–5 hr manual research process with an instant checklist, demoed to 10+ stakeholders (ongoing through December 2026)
- Won 1st place in company-wide AI Challenge (20 competing teams) with “Smart Fetch”: agentic pipeline translating natural-language search into ranked, dynamically generated filter chips
- Built a Repo Assistant that parses repository infrastructure (Terraform, Jenkinsfiles) into a Neo4j GraphRAG knowledge graph and auto-drafts provisioning requests, targeting manual ticketing workflow for 40+ internal repos

Center for Language and Speech Processing, Johns Hopkins University

Baltimore, MD

Undergraduate NLP Researcher

09/2025 – Present

- Co-developing a multilingual benchmark for narrative bias in LLMs (Claude, GPT-4o, DeepSeek) across 6 languages; first-of-its-kind evaluation of how model framing of contested topics diverges by language (submitting to NeurIPS)
- Built the quantitative analysis pipeline (Python: BERTopic clustering, semantic-similarity scoring) that turns raw model outputs into comparable divergence metrics — evidence base for the benchmark's findings

Levy Lab — Dartmouth Hitchcock Health Center

Hanover, NH

EDIT AI Mentor

06/2025 – 09/2025

- Mentored 15 interns across 3 clinical ML projects (spatial transcriptomics, multimodal fusion, cervical cancer screening), guiding experiment design, preprocessing strategy, and model evaluation on HPC infrastructure

EDIT AI Intern

06/2024 – 09/2024

- Built a hybrid lexical–semantic RAG system (BM25 + FAISS) over 10,000+ real pathology reports for clinician insight retrieval; presented to 50+ health and ML professionals

ADDITIONAL INFORMATION

sine (2025) — 1st Place, Data Analytics Track, HopHacks 2025; life-tracking app built with React.js, Flask, whisper.cpp, and the Gemini API

Published Paper (*Journal of Student Research*) — “Sentiment analysis of poetry: a study of six NLP techniques”; compared six NLP methods in R