

# Priyabrata Behera

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Authorized to work in the U.S. through 2029 (No immediate sponsorship required)

## Education

- Masters in Computer Science, University of North Texas - 3.8 / 4.0 May 2026

## Technical Skills

- AI / ML: LLM agents, tool calling, MCP, RAG, embeddings, vector search (pgvector), prompt engineering, LangChain, OpenAI API, PyTorch, Hugging Face
- Backend & APIs: FastAPI, REST APIs, Pydantic, PostgreSQL, MongoDB
- Cloud & DevOps: Docker, Azure, GitHub Actions (CI/CD), Git
- Languages: Python, TypeScript, SQL, Bash

## Work History

*AI Engineering Intern at WorkAsAService, IL* *May 2025 – Nov 2025*

- Built a RAG system using OpenAI APIs and a vector database to help the team search internal engineering documentation.
- Adjusted document chunking strategies and implemented semantic caching to lower API latency.
- Wrote FastAPI backend to process concurrent searches and integrate the database with the LLM service.

*Software Developer at RealPage, India* *June 2023 – Mar 2024*

- Migrated the admin portal to a new UI with a small team and shipped dashboards, user management, and search, so clients could find their property data faster.
- Built admin-panel features in C#, ASP.NET, and REST APIs that property managers use every day to manage their properties.
- Wrote automated tests that caught bugs before release and kept client dashboards reliable through the migration.

## Projects

*AgileProcess Planner* [Source Code](#)

- Built an LLM agent in TypeScript that turns plain-English instructions into full project plans (backlogs, stories, and sprints) and sets up a team's Azure DevOps accounts from a single command.
- Automated account setup through the Microsoft Graph API using an MCP design, replacing a manual multi-step process.

*Mechanistic Hallucination Tracing in LLMs* [Research Paper](#)

- Traced where a large language model (Llama-2-7B) makes up facts and identified the specific internal parts responsible (attention heads L29–L30), in a pilot research study at UNT.
- Built a validation pipeline in PyTorch that filtered 9 candidate cases down to 2 reliable ones, removing false positives before analysis.

*Job Tracker - Automated Job Aggregator* [Source Code](#)

- Built a tool that collects job postings from 200+ companies into one dashboard every 6 hours, replacing manual searching across many sites.
- Added a resume-to-job matching scorer to surface relevant roles, and built a Chrome extension that auto-fills applications and drafts cover letters using the OpenAI API.

*Demographic Bias in Medical Imaging* [UNT Summer Research AI - Poster](#)

- Trained deep-learning models (EfficientNet-B1, ResNet50, VGG19) on 10,015 dermoscopic images to measure demographic bias for a competitive AI research fellowship, finding significant bias against women over 50.