

# INJAM CHOWDHURY

Brooklyn, NY (917) 495-8620 injamch@gmail.com LinkedIn GitHub Portfolio

## EDUCATION

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### Stevens Institute of Technology

*M.S. in Machine Learning — Hoboken, NJ*

Expected Spring 2027

GPA: 3.35

### Fordham University

*B.S. in Computer Science — New York, NY*

May 2024

**Relevant Coursework:** ML Methods for Neural & Biological Data, Data Analytics & Machine Learning, Mathematical Fundamentals for ML, Deep Learning, Applied Machine Learning

## EXPERIENCE

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### CodePath

*Applied AI Engineering Fellow*

Feb 2026 – Present

- Completing an intensive applied AI curriculum covering LLM integration, RAG pipelines, prompt engineering, and AI agent design using LangChain and the OpenAI API.
- Building and deploying end-to-end AI applications with a focus on model evaluation, responsible AI practices, and production-ready system design.
- Previously completed Intermediate Web Development fellowship (React, Node.js, RESTful APIs, Git) — Feb–Apr 2025.

### Madison Square Garden

Jun 2022 – Aug 2022

*Front-End Engineer Intern — New York, NY*

- Built and optimized data-driven React components, improving user interaction tracking, responsiveness, and load performance across desktop and mobile devices.
- Refactored legacy code into modular, reusable components, reducing development time for future features and enabling smoother integration with internal analytics pipelines.
- Integrated RESTful APIs to manage dynamic data flows, ensuring accurate real-time content delivery and supporting scalability for high-traffic events.
- Collaborated with senior engineers in an Agile/Scrum environment — sprint planning, code reviews, and daily stand-ups — gaining hands-on experience with professional development workflows.

## PROJECTS

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### RAG-Powered Knowledge Assistant — Python, LangChain, OpenAI API, ChromaDB, FastAPI, Docker

Built an end-to-end Retrieval-Augmented Generation system that ingests PDF documents, chunks and embeds content into a ChromaDB vector store, and serves context-aware answers via a FastAPI endpoint. Containerized with Docker and deployed on Render with a Streamlit frontend for live querying. Implemented semantic chunking and similarity thresholding to improve retrieval accuracy.

### Autonomous Research Agent — Python, LangChain, OpenAI API, SerpAPI

Developed a multi-step AI agent capable of web search, summarization, and structured report generation using LangChain's agent framework and tool-use abstractions. Designed a ReAct-style reasoning loop with memory persistence across sessions, enabling coherent multi-turn task completion. Evaluated agent accuracy and hallucination rate across a custom benchmark of 50 research queries.

### LinkHub Web App — React, Node.js, PostgreSQL, REST API, Git

Developed a full-stack community forum featuring user authentication, post creation, threaded commenting, upvoting, and real-time sorting. Designed a responsive, accessible UI with component-based React architecture and a RESTful Node.js backend connected to a PostgreSQL database. Deployed via Vercel with CI/CD through GitHub Actions.

## SKILLS

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**LLM & AI Frameworks:** LangChain, LlamaIndex, Hugging Face Transformers, OpenAI API, Ollama

**ML & Data Science:** Scikit-Learn, Pandas, NumPy, Matplotlib, Seaborn, SciPy, Jupyter

**Deployment & MLOps:** FastAPI, Docker, MLflow, GitHub Actions, Streamlit, Render

**Databases & Vector Stores:** PostgreSQL, MySQL, ChromaDB, Pinecone

**Programming:** Python, SQL, JavaScript, HTML, CSS

**Frameworks & Tools:** React.js, Node.js, Git, GitHub, Vercel, Docker