

Bolu Odianosen

Dallas, TX | 682-331-2893 | oboluodianosen@gmail.com | linkedin.com/in/bolu-odia | github.com/Bolemonrin | bolemonrin.github.io/MyPortfolio/

SUMMARY

Full-stack software engineer who ships tested, end-to-end applications and builds production-grade AI systems. Strong at turning ambiguous problems into measurable results, having cut manual workflows by up to 80% and built a document-processing pipeline handling PDF packages in under a minute. Fast, self-directed learner who owns projects from architecture to delivery.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, SQL (MySQL), C++, HTML5, CSS3

Frameworks & Libraries: React, Node.js, Express.js, Django, Flask, Tailwind CSS

AI & Machine Learning: LangChain, LangGraph, LlamaIndex, OpenAI API, Ollama, RAG Pipelines, Vector Embeddings, LlamaCPP, CUDA

Tools & Practices: Git, Docker, CI/CD, Vitest, RESTful APIs, Serverless Architecture, Chrome Extensions API, Claude Code, Windsurf

EXPERIENCE

Extern (Pfizer) | [Bolemonrin/PharmaRag](#)

Remote

AI / RAG Engineer Externship

May 2026 – Jul. 2026

- Built a Python RAG pipeline over pharmaceutical document packages returning page-level citations, verified at **73%** accuracy against a hand-checked ground-truth set.
- Segmented an 11-page PDF package into 10 logical documents and recovered 8 scanned pages via OCR fallback (PyMuPDF, PaddleOCR).
- Processed the package end-to-end in **58s** at about (5s/page) on a local RTX 4060, with **2.0s** avg query latency.
- Designed hybrid routing: exact-field queries answered deterministically at 90% confidence, open questions via confidence-thresholded semantic retrieval.

Grand Prairie ISD

Grand Prairie, TX

Substitute Teacher

Mar. 2025 – May 2026

- Led classrooms across multiple grade levels while building software projects independently.

PROJECTS

JobTrackr — Chrome Extension | [Bolemonrin/JobTrackr](#)

Dec. 2025 – Present

- Built and unit-tested (Vitest) a Manifest V3 Chrome extension in React 19 and TypeScript that cut manual job-entry time by **80%**.
- Hit **95%** capture across **5+** job boards with a tiered detector: generic schema.org JSON-LD parsing plus site-specific adapters for LinkedIn, Indeed, and Glassdoor.
- Ran serverless, writing directly to the user's Google Sheet over OAuth 2.0 (least-privilege `drive.file` scope), cutting sync latency from **5–10s to under 1s**.

Spotify Party Room Web App | [Bolemonrin/Spotify-Party-Room](#)

Jun. 2024 – Present

- Built a full-stack party-music app: Django REST Framework backend and React + TypeScript (MUI) frontend for shared listening rooms.
- Designed REST endpoints managing room lifecycle, host controls, and per-session guest state.
- Integrated Spotify OAuth for host-authenticated playback and implemented vote-to-skip with a configurable per-room threshold.

Semantic Book Recommender | [Bolemonrin/Book-Recommender](#)

Jun. 2025 – Present

- Built a semantic recommender over **5,000+** book descriptions using local HuggingFace embeddings (BAAI/bge-small-en-v1.5) and Chroma.
- Designed a multi-stage retrieval pipeline: top-50 similarity search, category filtering, then reranking by emotion scores.
- Shipped a Gradio dashboard on Hugging Face Spaces with GitHub Actions auto-deploy on push to main.

EDUCATION

University of Houston

Houston, TX

B.S. Computer Science, Minor in Mathematics

Aug. 2022 – Aug. 2024