

# Bhumish Dayal

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## EDUCATION

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### The University of Texas at Dallas

*Bachelor of Science in Computer Science*

Richardson, TX

*Expected May 2027*

- Coursework: Advanced Data Structures & Algorithms, Machine Learning, Linear Algebra, Probability & Statistics, Operating Systems, Databases, Discrete Math

## EXPERIENCE

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### Software Engineering Intern

Jun. 2026 - Present

*FloCareer*

*Remote*

- Building the generative face-replacement stage that swaps identity while preserving expression, gaze, and head pose across a 1M-recording, 750K-hour corpus, keeping the behavioral signal intact for training.
- Architecting the 8-stage anonymization pipeline across Whisper, pyannote, Presidio NER, and ARX k-anonymity, modeling compute to a \$25-165K core from a \$0.9M+ baseline by scoping generative video to queried pages.

### AI Engineering Extern

Jan. 2026 - May 2026

*Pfizer*

- Built a retrieval-augmented generation system over 5K+ clinical-supply documents, chunking and embedding them into a vector database with LlamaIndex for semantic, natural-language search across pharmaceutical PDFs.
- Built an ensemble OCR pipeline on Tesseract, PaddleOCR, and EasyOCR to extract structured fields from messy pharmaceutical labels and logistics forms, served through a Gradio chatbot for real-time document Q&A.

### Artificial Intelligence Researcher

Aug. 2025 - Dec. 2025

*The University of Texas at Dallas - Dr. Vincent Ng*

*Richardson, TX*

- Built a structured argument-graph annotation pipeline for a multimodal (text + image) misinformation task, modeling claims, evidence, and logical fallacies as typed nodes with explicit logical operators.
- Designed the dataset infrastructure (collection, validation, versioning) with quality control on node typing and link constraints, producing 10K annotated examples to benchmark downstream multimodal models.

### Full Stack Engineer

May 2025 - Dec. 2025

*Nebula Labs*

*Richardson, TX*

- Designed and deployed responsive front-end interfaces using React.js and Next.js for the Trends platform, which reached 12,000+ unique users and supported 1,600+ active users during peak course registration.
- Engineered front-end architecture for the Trends platform by splitting heavy UI into route-level chunks and optimizing asset delivery, resulting in faster navigation and decreasing page load times by 35%.

## PROJECTS

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### Cursorly | *Python, Rust (PyO3), Windows UIA, FastAPI*

Jun. 2026 - Present

- Built a B2C Windows desktop AI agent in Python and Rust (PyO3) that guides users with a live ghost cursor off the UI Automation tree, running an always-replan loop of typed Pydantic actions over an OpenRouter LLM, with a FastAPI/Supabase backend, 350+ tests, and a live demo at cursorly.app.

### TryEZ | *Diffusion, LoRA, IP-Adapter, Modal, FastAPI*

Jan. 2026 - May 2026

- Built a B2B virtual try-on engine handling 10K+ try-ons that renders garments onto user photos at 768x1024 through a Stable Diffusion + IP-Adapter inpainting pipeline driven by a from-scratch LoRA, with zero-storage in-memory inference on Modal GPUs.

## TECHNICAL SKILLS

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**Programming Languages:** Java, Python, Rust, C#, JavaScript, TypeScript, C, C++, SQL, HTML, CSS

**Frameworks / Libraries:** React, Next.js, Node.js, FastAPI, PyTorch, TensorFlow, Scikit-learn, NumPy, Pandas

**Tools & Platforms:** Git, Docker, Kubernetes, AWS, Azure, Linux, PostgreSQL, MongoDB, HuggingFace

## CERTIFICATIONS

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**Building Language Models on AWS** - AWS Training & Certification

June 2026

**Google AI Essentials** - Google

May 2026

**Build an AI Agent** - IBM SkillsBuild

Apr. 2026