

Narayana Pujara

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EDUCATION

University of Nebraska - Lincoln

Bachelor of Science in Software Engineering

GPA: 3.8, Dean's List (All Semesters)

Relevant Coursework: Data Structures & Algorithms, OOP, UI/UX Design, HCI, Linear Algebra, Probability & Statistics

Scholarships: Global Laureate Scholar, Liding Emerging Leader, and College of Engineering Scholar

Lincoln, NE

August 2024 - May 2028

EXPERIENCE

Nelnet, Inc.

AI Engineer Intern

Lincoln, NE

May 2026 - Present

- Led development for a conversational AI workflow with Claude SDK that lets graduate and undergraduate borrowers find their best loan options, using a TypeScript/Vite frontend with TanStack Router and a TypeScript/Hono backend.
- Architected a distributed, serverless backend infrastructure using Terraform, deploying AWS Lambda, API Gateway, DynamoDB, and KMS with Cognito authentication and request validation to securely handle high-volume traffic.
- Modeled user data, session tokens, and conversation state in DynamoDB and instrumented Google Analytics 4 UTM tracking to measure borrower funnel behavior end-to-end.
- Built a DynamoDB-to-Snowflake data pipeline that delivers usage data to the analytics team for downstream reporting.

UNL Department of Biochemistry - [Digital Twin Innovation Hub](#)

Undergraduate Research Assistant

Lincoln, NE

February 2025 - Present

- Engineered an Information Retrieval and Natural Language Processing system using Python LLM agents and Qdrant to query and surface disease-treatment pathways from large biomedical datasets, and co-authored a [research paper](#).
- Engineered a validation framework for ~5,600 genome-scale metabolic cell models using cobraPy, Pandas, and NumPy, and confirmed model correctness at 98% accuracy.
- Applied machine learning to train and integrate Scikit-learn and TensorFlow models into a biological simulation framework, reaching 94% accuracy in predicting white blood cell behavior on validation data.
- Built Docker images for Linux-based deployment across multiple environments, enabling biologists to use the app without manual setup and reducing setup time by 8%.

[Secondaxis.ai](#) - Early Stage AI Startup

Contributing Engineer

Remote

July 2025 - October 2025

- Designed MongoDB schemas and built Node.js CRUD APIs to store, retrieve, and manage user data for 1000+ users.
- Built interactive UI components using React and Chakra UI, including a resizable, draggable notes card and features allowing users to drag and drop images and documents onto the collaboration canvas.
- Integrated multiple LLM APIs (GPT-4, Claude, Gemini) to enable text generation, image creation, and flowchart features, helping product managers save 35% of their documentation time.
- Implemented CI/CD automation with Docker and AWS to run parallel tests, build images, and deploy releases.

PROJECTS

[Roko](#) – Fiverr for AI Agents

UC Berkeley AI Hackathon

June 20-21, 2026

- Built an AI agent marketplace where users post bounties with concrete acceptance criteria, and multiple Claude agents compete in parallel. Built with Next.js 16 frontend and TypeScript backend, and engineered a verification oracle pairing deterministic gates with binding Claude sub-scores and a vision judge fetched behind SSRF guards.

[ProtectSUS](#) - AI Security Copilot

Nexhacks Hackathon | Won MongoDB Sponsor Track

January 17-18, 2026

- Focused on security software development by building a multi-agent security platform with LangGraph that detects codebase vulnerabilities through simulated agent debate, fine-tuned GPT-4 on security-specific patterns, and deployed on AWS EC2 with a distributed Redis/Celery caching layer with Next.js Frontend & Python/FastAPI backend, and used MongoDB Atlas as both database and RAG.

[Banana4U](#) - AI Desktop Assistant with Voice & Visual Context

CornHacks Hackathon | 1st place in Banana Track

November 8-9, 2025

- Built a cross-platform desktop AI assistant with Electron.js & React frontend and TypeScript backend with real-time voice interaction and screen-capture analysis for visually impaired users, integrating the Gemini and ElevenLabs APIs for speech-to-text and text-to-speech.

TECHNICAL SKILLS

- **Languages:** C, C++, Java, JavaScript, Python, TypeScript, SQL, MATLAB
- **AI/ML:** LangChain, LangGraph, Scikit-learn, TensorFlow, Langroid
- **Frontend:** React, React Native, Vite, TanStack Router, Next.js, HTML/CSS, Tailwind CSS, Three.js, Anime.js
- **Backend & Databases:** Node.js, FastAPI, Snowflake, MongoDB, Qdrant, PostgreSQL, MySQL, Supabase, Redis
- **Tools & Platforms:** Git, Docker, AWS (Lambda, API Gateway, Cognito, EC2, S3, DynamoDB), Google Analytics 4

LEADERSHIP & INVOLVEMENT

- **Student Ambassador, [Project NANDA](#)** - Organized technical workshops for Spring 2026 on decentralized AI agent protocols and distributed systems, and collaborated with NANDA researchers and UNL computing clubs.