Kunal Jain

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Education

Texas A&M University – B.S. Computer Science, Honors AUG 2022 – MAY 2026

- **GPA:** 3.87/4.0
- **Minor:** Philosophy
- **Activities:** Aggie Data Science Club (Project Manager), Texas A&M Computing Society (Volunteer)
- **Coursework:** Algorithmic Analysis, Software Engineering, Computer Architecture, Parallel Computing, Human-Computer Interaction, Machine Learning, Operating Systems, Natural Language Processing, Cloud Computing, AI Ethics

Experience

Frontier Language AI Research Lab – Undergraduate Student Researcher AUG 2025 – Present

- Evaluating deficiencies in the geometric perception capabilities of Large Vision Language Models (LVLMs)

Squawk – Co-founder JUL 2025 – Present

- Embedding agents in LMS using multi-modal RAG with evaluations and insights, launching to 300+ students

RealPage – Software Engineering Intern JUN 2025 – Present

- Defined business KPIs and implemented LLM-as-judge online evaluations for AI CRM agents using LangSmith, LangGraph, OpenAI, and Python for 5k+ daily voice calls across 24M rental units
- Built config-driven evaluation framework atop LangSmith with complex trace parsing and massive parallelization; Dockerized & deployed on AWS using GitHub actions, PostgreSQL, FastAPI backend, and React/NextJS frontend
- Created statistical aggregation pipeline and interactive dashboards (Dash/Plotly, Streamlit, Scikit-learn, Numpy, Pandas, SQLite) to visualize agent performance trends and surface actionable insights for product team
- Built latency profiler comparing Azure and OpenAI APIs to guide infra migration; explored audio evaluations using diarization and transcript analysis via Deepgram for future eval extensions

Thoma Bravo L.P. – AI Solutions Analyst Intern JUN 2024 – AUG 2024

- Added file upload support using Azure vector search and rewrote Flask API, reducing chatbot response latency by 60%
- Performed extensive market research on AI solutions in the private equity field & presented findings to stakeholders
- Built secure LangChain-based RAG app (React, Flask, ChromaDB, Azure) to answer questions on uploaded documents without exposing sensitive firm data
- Automated investor audit confirmation using Power Automate and Azure OpenAI, saving 500+ hours annually

Texas A&M Health Science Center – Full Stack Software Engineer FEB 2024 – SEP 2024

- Designed EHR system for at-risk pregnant and postpartum women; built UI with React, Next.js, & TypeScript
- Built scalable backend services using Python, Flask, SQLAlchemy, and PostgreSQL

ABC Fitness – Software Engineering Intern/Co-op JUN 2023 – MAY 2024

- Developed a GPT-4/Azure AI chatbot with semantic query processing; built a Flask/React web app, optimizing UX to boost conversation duration by 40% and cut server response times by 60%
- Added SSO, language support, and country-specific document search; contributed to Azure open-source projects

Ashling Partners – RPA Developer Intern MAY 2021 – AUG 2021

- Developed Python/AWS solution to send UiPath bot errors to Slack in real time, improving response speeds by 5x

Projects

Collaborative Document Editor | *React, TypeScript, Express, Websockets, Redis, PostgreSQL*

- Developed using React and WebSockets, enabling multiple users to edit documents simultaneously
- Designed and implemented backend with Node.js, Express, PostgreSQL, and Redis for persistent storage, caching, and efficient document synchronization

Analyzing Adaptive Behaviors in Neural Celluar Automata | *Python, PyTorch, Matplotlib*

- Implemented Neural Cellular Automata (NCA) framework with differentiable cell updates using neural networks to simulate complex morphological and behavioral phenomena
- Achieved high pattern fidelity (SSIM 0.995) and emergent self-organization in tasks like apoptosis and pathfinding using only local rules

Semantically | *C++, Crow, Python, SciKit-learn, Transformers, FastAPI, Javascript*

- Implemented the SymSpell spellchecking algorithm in C++ and built REST API using Crow
- Created dataset of formal/informal text pairs using a TF-IDF vectorizer + logistic regression classifier to fine tune Mistral-7B for style transfer; built REST API using FastAPI to query fine-tuned model
- Achieved 10 ms DOM updates and sub-800 ms total rewrite latency in Chrome browser extension