Harsh Jain

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Experience

AI Systems Engineer (POC), University of Arizona × McGraw Hill, Remote **Jan 2026 – Present**
- Architecting a controlled, RAG-based GPT framework enabling instructors to create textbook-grounded, task-specific AI assistants.
- Enforcing role-based and content-level guardrails to constrain retrieval and model behavior to approved instructional materials.
- Designing source-aware response patterns that reference specific textbook chapters or sections to improve transparency and trust.
- Optimizing retrieval design, chunking strategies, and evaluation criteria to improve response consistency and reduce hallucination risk.

Computer Science Fellow, Handshake AI MOVE Program, Remote **Sep 2025 – Present**
- Evaluating 100+ AI-generated outputs weekly to ensure alignment with prompts and research-quality standards.
- Refining prompts and feedback loops to improve response consistency and strengthen automated evaluation pipelines.
- Analyzing recurring failure modes across evaluated outputs, identifying weaknesses that inform prompt and evaluation improvements.
- Using workflows and structured documentation to track evaluation results and model feedback across iterative review cycles.

Founding Engineer, SkillfullyAware (SAAQ) App, Tucson **Oct 2025 – Jan 2026**
- Designed scalable, API-driven backend services to process structured and unstructured user input into analytics pipelines.
- Implemented RESTful services powering frontend features and internal system integrations.
- Led MVP backend development across core services, data models, and application workflows under evolving product requirements.
- Integrated external LLM APIs and vector-based retrieval components to support early-stage AI feature experimentation.

AI Solutions Developer, Andrew Weil Center for Integrative Medicine, Tucson **Aug 2025 – Nov 2025**
- Built modular backend services for document ingestion and API-based access supporting AI-driven applications.
- Maintained reliable data ingestion pipelines within a regulated healthcare environment, emphasizing data integrity.
- Collaborated with clinical and technical teams to ensure production-grade safety, reliability, and performance of deployed systems.
- Prototyped cloud-based AI components using AWS services to support experimentation and backend workflows.

GRC Business Analyst, University of Arizona ITS, Tucson **Sept 2023 – Aug 2025**
- Automated internal software workflows to reduce manual effort and lower operational risk across compliance processes.
- Built data pipelines and dashboards supporting audit-ready enterprise systems used by large internal stakeholder groups.
- Partnered with compliance officers & system owners to assess control evidence & drive timely remediation across enterprise systems.
- Worked extensively with ServiceNow GRC modules and enterprise tooling to support compliance tracking and evidence management.

Projects

Java Personal Finance AI Platform
- **Tools:** Java, JavaFX, SQLite, Python (ML), Docker, Jenkins
- Developed a Java-based personal finance platform with SQL-backed persistence and a modular service-oriented architecture.
- Integrated Python-based machine learning services via APIs to automate expense categorization and improve classification accuracy.
- Emphasized data validation, correctness, and reliability to ensure integrity of financial records.

OneLiner | Reddit Hackathon
- **Tools:** Express.js, React 19, Redis, TypeScript, Tailwind CSS, Reddit Devvit
- Built a full-stack Reddit-integrated application serving 1,000+ potential users with low-latency backend APIs.
- Optimized asynchronous API endpoints using Redis to achieve sub-100ms response times.
- Reduced runtime errors by 40% by enforcing TypeScript strict mode and consistent linting and formatting standards.

Technologies

Languages: Python, Java, C, C++, SQL, JavaScript, TypeScript, HTML, CSS
Backend & Data Systems: Express.js, Django, REST APIs, Redis, PostgreSQL, SQLite, Vector Databases, FAISS, Embeddings
AI & LLM Systems: RAG Pipelines, Prompt Engineering, LLM Evaluation, LangChain, AWS Bedrock
Cloud & DevOps: AWS, AWS Lambda, Docker, Jenkins, Linux, CI/CD
Engineering Tools & Practices: Git, ServiceNow, Jira, Confluence, Asana, Code Reviews, Documentation, Agile Workflows

Education

University of Arizona, BS in Computer Science, Minor in Software Engineering **Aug 2022 – May 2026**
- **GPA and Honors: 3.85/4.0** (Highest Merit Scholarship, Dean's List, Highest Academic Distinction)
- **Coursework:** Data Structures & Algorithms, Object Oriented Programming, Data Science & Neural Networks, Advanced C Programming, Computer Architecture, Software Engineering, Web Development, Operating Systems, Computer Networking