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Ishaan Chamoli

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EDUCATION

University of Illinois Urbana-Champaign, Grainger Engineering   **Expected Graduation: Dec 2026**
- Bachelor of Science in Computer Science (Honors)

Skills
- AI/ML: Python, PyTorch, TensorFlow, Keras, Hugging Face, NumPy, Pandas, LangChain, Fast.ai, PromptLayer
- Full-Stack: JavaScript, C++, React, Node.js, Next.js, Pinecone, Redis, AWS, GCP, Docker, SQL, Java, Kotlin

WORK EXPERIENCE

AI/ML Intern   **AMD**   **May 2025 - Aug 2025**
- Engineering AI frameworks for chip design code generation and validation across 100K+ lines of Verilog daily
- Developing MCP server infrastructure and scalable agent systems to support AMD's proprietary IP workflows
- Building Graph-RAG pipeline over internal design/codebases to improve retrieval and testing performance

Software Engineer   **Boardy AI (Visit)**   **March 2025 - Present**
- Supported early product development as one of first 5 engineers for our 45k users, with $8 million seed
- Led creation of Boardy's event matching platform - voice agent using RAG, Rerankers & bipartite cost graphs
- Designed large-scale user research pipeline to extract 900k leads + intelligent outreach system for 5k/day

AI/ML Intern   **Stealth Startup (Techstars 2024)**   **Dec 2024 - Feb 2025**
- Developed core AI infrastructure, partnered/backed by OpenAI, Google, Microsoft, and MIT Solve
- Engineered novel RAG system on Realtime API, for 40% more seamless, knowledge-backed voice agents
- Prepared custom browser agents, powered by Browser-Use & company APIs, improving reliability by 5x

Founding Engineer   **MetaFrazo.ai Translation (Visit)**   **Oct 2024 - Feb 2025**
- Built B2B platform for AI video translation & lip-syncing, tested by MrBeast, Meta, NBA, and K-Pop media
- Implemented backend parallel processing pipelines with Celery, Redis & ElevenLabs for 75% faster translation
- Deployed Flask+React based scalable, dockerized systems with CI/CD on AWS Elastic Beanstalk and S3

AI/ML Intern   **Risk Management R&D Team**   **Aug 2024 - Dec 2024**
- Developed AI agent with predictive model calling to generate reports & increase productivity by 20% in banks
- Built secure llama text-to-SQL system on bank data, saving analysts 3+ hrs daily at major NYC financial institution

Software Engineer   **Jan Suraaj Political Party (Visit)**   **June 2024 - Aug 2024**
- Led development of a React Native app and frontend statistics dashboard for societal reform & election surveys
- Utilized by 5k volunteers to reach 6 million+ citizens, saving 300,000 USD, with PM Modi's Political Strategist

PROJECTS

VibeGPT (2024) - Live   *OpenAI, NextJS, Firebase*
- AI chatbot that connects similar users in real-time, based on an analysis of their conversations
- Utilized dynamically weighted averages, normalization, and cosine similarity search on text embeddings

SDLC-Accelerate (2024) - Demo   *OpenAI, Prompt Engineering, React*
- End-to-end AI platform w/ feedback-driven HITL, accelerating months of project planning for tech companies
- Converting SWE project requirements to GenAI Excel sheets, UML diagrams, documentation, & UI mockups

SafeR Technologies (2023) - Website   *Python, Pandas, Flutter*
- Researched novel algorithm for safe refugee relocation, deployed by United Nations, impacting 550+ refugees
- Created emergency network app, tested with rural governments, National Adventure Foundation, & 1000 users

AWARDS AND LEADERSHIP
- **HackMIT** Winner (1000+ Hackers), UIUC AI Hackathon Winner, National Youth Award (Tech Nominee)
- **Intel** Artificial Intelligence Global Impact Award - 3 Rounds of National and International selection
- **World Economic Forum** Representative of India on AI - Advised 50+ companies, led & taught 200 students