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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

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 - August 2025**
- Built GitHub App for Codex-powered async debug & auto-PRs, presented to 50+ senior engineers/directors
- Optimized Codex workflows with telemetry, auto generated MCP servers, and Graph-RAG on internal design docs
- Worked with a team of principal/distinguished engineers to integrate AI into regressions for 100k+ lines of RTL

Software Engineer   **Boardy AI (Visit)**   **March 2025 - May 2025**
- Supported early product development as one of the first 5 engineers for our 55k users, with $8 million seed round
- Led creation of Boardy's event matching platform - a voice agent using RAG, Rerankers & bipartite cost graphs
- Designed large-scale user research pipeline to extract 900k leads, with intelligent outreach system for 5k/day

AI/ML Intern   **Stealth Startup (Techstars 2024)**   **Dec 2024 - Feb 2025**
- Developed core AI infrastructure, partnered with / backed by OpenAI, Google, Microsoft, and MIT Solve
- Engineered novel retrieval 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

Software Engineer   **MetaFrazo.ai Translation (Visit)**   **Sep 2024 - Dec 2024**
- 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

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

AI for Finance R&D (2024)   *Llama, LangChain, AWS Bedrock*
- AI agent with predictive model tool-calling to auto-generate reports and increase bank productivity by 20%
- Built secure text-to-SQL system on bank data, used by a global financial institution saving analysts 3+ hrs daily

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