

EDUCATION

University of Illinois Urbana-Champaign, Grainger Engineering **May 2027**

- *Bachelor of Science in Computer Science*: James Scholar Academic Honors
- *Coursework*: Data Structures & Algorithms Honors, Machine Learning, Probability & Stats, Software Design

Technical Skills:

- TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, ReactJS, NextJS, ExpressJS, TailwindCSS, Bootstrap
- Python, Java, C/C++, Kotlin, SQL, HTML/CSS/JavaScript, Postman, Docker, Github, Visual Studio Code

WORK EXPERIENCE

Machine/Deep Learning Intern **Risk Management AI Team** **Aug 2024 - Present**

- Selected for R&D in an experimental AI team of Risk Managers from a large NYC-based financial institution.
- Developing a custom LLM from scratch for secure deployment in various banks, trained on quarterly earnings.
- Previously built a chatbot using Llama for company analysts to query global banks' risk tolerance and balances.

Software Engineer Intern **Jan Surraaj: State Political Party** **June 2024 - Aug 2024**

- Led development of a React Native mobile app and real-time statistics dashboard for state election surveys.
- Built to drive societal change in Bihar - India's lowest ranking state on the Human Development Index.
- Utilized by 5,000 volunteers to reach 6 million+ citizens, saving 300,000 US Dollars.
- Executed 5 high-profile campaigns with Harvard, Stanford alums & Prime Minister Modi's Political Strategist.

Course Assistant and PM **UIUC Computer Science** **Aug 2024 - Present**

- Tutoring both Kotlin and Java learners for CS 124: Introduction to Computer Science, with 2000+ students.
- Explaining topics such as maps, hashing, searching and sorting algorithms, and Android app development.
- Leading and supporting more advanced teams as a project manager for Honors students.

Representative of India **World Economic Forum** **May 2022 - Aug 2023**

- Selected as the sole Representative of India to serve on the Artificial Intelligence Youth Council of the forum.
- Advised 50+ companies on ethical AI development focusing on data transparency and model explainability.
- Founded and led the first-ever national chapter of the council globally, growing to 200 members.

PROJECTS

MediChain Healthcare (2024) **Llama AI, ICP Blockchain, React**

- Decentralized patient medical database for secure and efficient communication between hospitals worldwide.
- Developed an integrated context-aware AI and visualizations platform for pandemic preparedness research.
- Awarded 1st Place in Blockchain at HackMIT - MIT's Annual Hackathon with 1000+ hackers globally.

Neural Net from scratch (2024) **Deep Learning, Python**

- Neural network built on Machine Learning math fundamentals without the use of any existing AI frameworks.
- Implemented pipeline with dense layers, activation, ADAM optimizer, backpropagation & cross-validation.

Uplift AI (2024) **OpenAI, LangChain, React Native**

- Mobile app to assist users in communication with their family/friends in need of mental health support.
- Integrated prompt engineered AI responses with screenshots-to-text inputs using Tesseract OCR.

SafeR Technologies (2023) **Python, Pandas, Flutter**

- Developed novel algorithm to analyze safe routes for refugee relocation in conflict zones based on crime data.
- Backed by Intel's AI Global Impact Award and received mentorship from MIT CS Professor Debayan Gupta.
- Deployed by the United Nations, directly impacting 550+ refugees in Kyrgyzstan & Tajikistan.
- Created additional "FRIENDS" app connecting "First Responders In Emergencies N' Dire Situations".
- Tested with rural governments and hospitals, India's National Adventure Foundation, and 1000 users.