

NISCHAY RAWAL

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EDUCATION

University of Kansas

Expected May 2027

Bachelor of Science in Computer Science and Mathematics (4.0 GPA)

Lawrence, KS

- **Coursework:** Data Structures, Software Engineering, Embedded Systems, Programming Paradigms, Discrete Structures
- **Certifications:** AWS Cloud Practitioner, AWS Intro to Cloud Engineering, Azure AI Fundamentals, IBM IOT, GitHub Foundations
- **Hackathons Wins:** ETHGlobal NY (1st Circle & Chainlink), ETHDenver (1st Pinata & Boundless), Midwest Blockathon (1st Pinata), RippleX (2nd XRPL), ETHGlobal SF (2nd Privy)
- **Awards:** \$10.5k+ in Hackathons, USAMO Index 175, National Speech Finalist (NSDA), BPA National Champion (Research Team), BPA National Finalist (Presentation Team, Digital Media Production), Undergraduate Research Fellow, Undergraduate Research Award

PROFESSIONAL EXPERIENCE

Software Engineer Intern

May 2025 – Aug 2025

Institute for Information Sciences

Lawrence, KS

- Engineered ML pipelines in Unix/Linux HPC clusters to process CubeSat telemetry, **achieving 74% anomaly detection accuracy**.
- Deployed anomaly-detection algorithms (Isolation Forest, K-Means) in distributed jobs, **cutting triage time by 30%**.
- Optimized feature extraction + model tuning workflows, enabling faster iteration and integration with production telemetry systems.

Programming Synthesis Researcher

Oct 2024 – May 2025

Mathematical Methods & Interdisciplinary Computing Center

Lawrence, KS

- Integrated ML-guided heuristics into RubySyn's compiler backend, **improving program synthesis accuracy by 35%**.
- Parallelized synthesis engine across multi-core clusters, **reducing runtime 40%** on large-scale program generation.
- Implemented neural ranking models to prioritize candidate programs, **cutting search time by 22%** and improving throughput.

Software Engineering Intern

May 2024 – Aug 2024

Voices of Variety

Remote

- Engineered scalable Python pipelines to ingest and normalize 200+ heterogeneous datasets, **automating end-to-end data processing**.
- Implemented and optimized ranking algorithms to score 20+ high-value targets, **boosting system accuracy by 35%**.
- Developed robust ETL scripts to transform 100+ raw inputs into structured datasets, **reducing manual processing effort by 70%**.

PROJECTS

VoiceDoc

July 2025 – Aug 2025

Technologies: Coinbase CDP, Circle CCTP, Chainlink Functions, Next.js, TypeScript, Solidity

- Built a voice first telehealth agent with Chainlink Functions + Circle CCTP for **sub-5s cross-chain Base to Avalanche settlement**.
- Integrated Coinbase Wallet, Onramp, Escrow, Offramp, and Paymaster to **cut payment failures 80% and issue instant refunds**.

EcoPrint

Apr 2025 – May 2025

Technologies: Geth (PoA), IPFS Pinata, Merkle Trees, Autonomys AI, Raspberry Pi cluster, TypeScript, Python

- Built a PoA chain with Merkle zk proofs and group-key signatures, storing credits on IPFS to ensure **block finalization under 2s**.
- Integrated Autonomys AI to analyze exchange data in real time, delivering **99% accurate anomaly alerts with sub-second latency**.

Verifisure

Feb 2025 – Mar 2025

Technologies: Python, JavaScript, Typescript, Docker, React.js, Solidity, Rust, zkVM, EigenLayer

- Built an AI-powered attestation system using OCR and NLP to **extract identity data with 94%+ accuracy** across noisy documents.
- Built a secure, distributed on-chain proof infrastructure using zkVM achieving an **85% reduction in fraud resolution time**.

LEADERSHIP EXPERIENCE

KU Blockchain Institute - VP Engineering

Dec 2024 - Present

- Leading industry outreach, onboarding 15+ Web3 companies and organized The Midwest Blockathon with \$28k in sponsorships.
- Lead engineering research on zk proofs, Layer-2 scaling, and on-chain AI and guide creation of reproducible prototypes with CI/CD.

Engineering Student Council - Expo Chair

Sep 2024 - Present

- Directed a 5-member team to coordinate KU's largest outreach event (1,800+ participants), managing logistics for 10+ large-scale events.
- Managed logistics for 10+ engineering community events, each drawing 300+ attendees to foster networking and campus engagement.

TECHNICAL SKILLS

Languages: Go, Python, Java, C++, TypeScript, JavaScript, Solidity, SQL

Systems/Web3: CDP, Node.js, Next.js, React, gRPC, Hardhat, Foundry, Docker, Kubernetes (GKE), CI/CD, OpenZeppelin, Ethers.js, IPFS

Cloud/Security/Data: Google Cloud (GKE, Pub/Sub, BigQuery, Firebase), PostgreSQL, MySQL, OpenAPI, OAuth2/JWT