NISCHAY RAWAL

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Nationally ranked chess, math, and speech competitor building impactful software at the intersection of tech, business, and innovation.

EDUCATION

University of Kansas | Computer Science and Mathematics with Honors — Expected May 2028

- GPA: 4.0/4.0 | SELF Fellow (1 of 14) | Engineering Research Fellow (1 of 11) | KU SELF Engineering Pillar Nominee

Relevant Coursework: Data Structures, Software Engineering 1, Embedded Systems, Programming 1/2, Calculus 1/2/3, Diff Eq., Linear Algebra
Certifications: Microsoft Azure AI Fundamentals, JP Morgan SWE Sim (Forage), CITI Technology Software Development Sim (Forage)

SKILLS

Languages: Python | JavaScript | HTML/CSS | TypeScript | Java | C | C++ | C# | SQL | Bash | Ruby
Frameworks/Tools: React | Flask | Docker | Git | CI/CD | REST APIs | Power BI | Angular | Vivado | Figma
Systems/Other: Linux | Jira | Agile | SDLC

PROFESSIONAL EXPERIENCE

Software Engineering Intern — May 2025 – Present

I2S | Lawrence, Ks

- Developing full-body haptic feedback algorithms by designing custom vibrotactile encoding schemes in Unity and microcontroller platforms.
- Boosted real-time boundary detection accuracy in Meta Quest VR from 65% to over 90% through signal optimization and embedded tuning..

Venture Capital Intern — May 2025 – Present

Royal Street Ventures (UVF Division) | Remote

- Conducted due diligence on 5+ startups by analyzing markets, building financial models, and interviewing founders.
- Co-authored investment memos with analysts and GPs that influenced $25K+ in capital allocation decisions.

Telemetry Researcher — Dec 2024 – Jun 2025

KubeSat | Lawrence, Ks

- Leading a 4-member team under Prof. John Paden to build AI models that classify CubeSat telemetry anomalies and improve fault detection.
- Designed and proposed an ML model to classify anomalies from sensor drift, radiation, and transmission issues; selected to present at ITC 2025.

Programming Synthesis Researcher — Nov 2024 – Present

MMIMC | Lawrence, Ks

- Researched program synthesis in the I2S Lab under Prof. Sankha Guria, extending RubySyn with static analysis and interpreter verification.
- Ran user study to evaluate practical impact of enhancements; received KU Engineering Research Award.

PROJECTS

GKE-PubSub-Autoscaler

Lead Developer – Personal Project — May 2025 – Jun 2025

- Developed an event-driven message processor on GKE with autoscaling, reducing idle compute by ~60% and maintaining sub-2s latency under load.
- Tech: Google Cloud, Kubernetes (GKE), Terraform, PubSub, Java, Spring Boot, Angular

Ecoprint

Lead Developer – Midwest Blockathon **(1st Place, Pinata Track)** — Apr 2025

- Designed a decentralized carbon tracking platform with 100% auditability via Pinata IPFS integration and Autonomys AI-driven scoring.
- Tech: JavaScript, Node.js, HTML/CSS, Custom Blockchain (P2P), React, Docker

Verifisure

Co-Founder – ETH Denver Hackathon **(1st Place Gaia & Boundless; National Features (Times Square, CollegeDao etc.))** — Feb 2025 – Mar 2025

- Architected an AI agent attestation system using OCR/NLP and zkVM integration, achieving 94%+ data extraction accuracy and reducing fraud resolution time by 85%.
- Tech: Python, JavaScript, Docker, React.js, Solidity, Rust, zkVM, EigenLayer

EcoXchange

Lead Developer – RippleX XRPL Residency **(2nd PlaceOverall Tier, 2nd Place XRPL Track)** — Oct 2024 – Nov 2024

- Developed an XRPL-based carbon credit dApp enabling EPA-aligned tokenization; tested with 200+ users and cut reporting overhead by 40%.
- Tech: JavaScript, HTML, CSS, XRPL, Testnet

LEADERSHIP EXPERIENCE

KU Blockchain Institute – VP of Engineering, Director of Education — Dec 2024 – Present

- Led industry outreach for KU Blockchain Institute, onboarding 15+ Web3 companies and organizing 15+ events with S&P 500 and startup speakers.
- Directed Midwest Blockathon with 100+ attendees (75% first-time Web3 devs), securing $22K in sponsorships and $6K in prizes.

KU Engineering Student Council – EXPO Chair, Fesc — Sep 2024 – Present

- Led a 5-member team to organize KU's largest outreach event, Engineering EXPO, increasing attendance by 28% to a record 1,800 participants.
- Managed logistics for 10+ engineering community events, each drawing 300+ attendees to foster peer networking and campus engagement.

AWARDS

Engineering/Math: 1st place Pinata Track (Midwest Blockathon, 2025), 1st place Boundless Track (Eigen Games, 2025), 1st place Gaia Track (ETH Denver, 2025), 2nd place XRPL Track (RippleX, 2024), ICPC Best Kansas Team (ICPC, 2024), K-State Programming runner-up (Advanced Division, 2023), KU Engineering Competition runner-up (Mechanical Engineering, 2023), AIME qualifier (USAMO Index: 175)
Research: BPA National Champion (Research Team, 2024), UG Research Award (2025), UG Research Award (2024), UG Research Fellow
Speaking: NSDA Nationals Extemp Speech runner-up (NSDA, 2024), state Extemp Speech finalist (KSHSAA, 2025), BPA national finalist (Presentation Team, Branding and Promotion, Multimedia Video, 2023)