Nicholas Kurian

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Computer Science sophomore at UT Dallas focused on machine learning and AI security, seeking an ML or security internship.

EDUCATION

University of Texas at Dallas | Richardson, TX Expected May 2029

B.S. in Computer Science | Certificate in Cyber Defense (in progress)

- **Relevant Courses:** Discrete Mathematics (CS 2305, current); Programming Fundamentals in C++ (CS 1436, Spring 2027)
- **Honors:** AP Scholar with Distinction (2024); National Society of Leadership and Success (NSLS) Inductee

TECHNICAL SKILLS

Languages: Python, JavaScript, HTML/CSS, SQL
Tools & Frameworks: Node.js, Express.js, PostgreSQL (Supabase), Git/GitHub, GitHub Actions (CI/CD), GitHub Pages
Machine Learning & Data: scikit-learn (decision trees), pandas, NumPy, model evaluation (Precision@K, train/test leakage), Google Colab
AI & Security: AI foundations (search, knowledge representation, neural networks), CTF skills (web, forensics, cryptography, OSINT), CompTIA Security+ (in progress)

CERTIFICATIONS

CS50: Introduction to Artificial Intelligence with Python — Harvard University Sept 2026
Python Programming Essentials — Rice University Jul 2026

EXPERIENCE

IT & Web Development Intern | MindSoft Solutions LLC | Allen, TX (Hybrid) June 2026 – August 2026

- Designed and built the company's official website from the ground up using HTML, CSS, JavaScript, and GitHub Pages, translating IT and cybersecurity service offerings into a clear, professional web experience
- Deployed a responsive, multi-page site managed end-to-end through Git, from development through production
- Implemented interactive front-end functionality, including a mobile navigation menu and a working contact form; researched and wrote client-facing technical content on cybersecurity, cloud, and network infrastructure services

PROJECTS

Internlog | Full-stack web app, built with a partner 2026

- Engineered a platform for anonymous internship reviews, company ratings, interview experiences, and career insights, built on Node.js/Express and Supabase Postgres
- Designed and shipped a rule-based fraud/spam-detection system scoring submissions across five engineered signals (lexical diversity, near-duplicate similarity, rating-extremity, templated-language and link-spam detection), surfacing explainable risk flags to moderators instead of auto-rejecting content
- Implemented moderation workflows, automated email notifications, and row-level-security-protected database access to improve platform reliability
- Built a responsive frontend with GitHub Actions CI/CD and CodeQL security scanning; live at internlog-onrender-com.onrender.com

Search Content Decline Analysis | FlyRank ML Internship (Applied Search Intelligence) Nov 2026 – present

- Ran a reproducible Python/scikit-learn pipeline on an anonymized 30,000-page search dataset to rank pages for content refresh, comparing a hand-written rule against decision trees using Precision@K
- Used pandas to test whether keyword search volume predicts page impressions: correlation ≈ 0.00 across all 30,000 pages and across the 21,994 pages with 100+ impressions
- Compared depth-2 and depth-3 decision trees (Precision@50 of 0.60 and 0.72 vs 0.68 for the hand rule, in-sample) and demonstrated how target leakage inflates results

LEADERSHIP EXPERIENCE

Team Captain, CSAW CTF 2026 | UT Dallas Computer Security Group (CSG) | Richardson, TX Sept 2026

- Captained a 3-member team (“hugh_hack”) at CSAW CTF 2026, one of the largest collegiate cybersecurity competitions worldwide (1,000+ scoring teams historically), placing 260th — top ≈20–25% of scoring teams
- Personally solved challenges across six categories (Web, Forensics, Cryptography, Misc, OSINT, Reverse Engineering) in a 48-hour jeopardy-style competition, contributing the large majority of the team’s total point score

National Cyber League (NCL) — Fall 2026 Individual Game Oct 2026

- Ranked 420th of 5,959 (top ~7%, Standard Student Bracket) in NCL's Fall 2026 Individual Game, a solo weekend cybersecurity competition across nine domains
- Scored 2,335/3,000 points at 84.9% accuracy (141/166 correct, 0 skipped) across OSINT, cryptography, forensics, traffic analysis, password cracking, and web exploitation