

Amir Abdur-Rahim

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SUMMARY

Healthcare IT candidate bridging 2+ years of hands-on Epic EHR experience with graduate-level training in clinical data integration and information systems. Chief Medical Scribe promoted to trainer; now completing MS MIS at UIC (4.0 GPA) with concentration in Healthcare Information Systems. Projects span end-to-end data pipelines, clinical NLP, and API-driven documentation validation. Certified in Snowflake, AWS, and Google Cloud analytics stacks.

EDUCATION

University of Illinois Chicago — Chicago, IL

Master of Science, Management Information Systems — Expected Dec 2026

GPA: 4.0 • Concentration: Healthcare Information Systems

Relevant coursework: Healthcare Information Technology & Analysis, Advanced Database Management, Data Mining, Statistics for Management, Business Analytics, Entrepreneurship with AI

University of Illinois Chicago — Chicago, IL

Bachelor of Arts, Psychology — May 2020

PROJECTS

Parkinson's Disease Voice Screening — IDS 506, Spring 2026

- Built binary classifier distinguishing Parkinson's patients (n=40) from healthy controls (n=41) using 167 acoustic features extracted via Parselmouth and librosa
- Evaluated 4 model families (LR, RF, SVM, XGBoost) × 4 feature sets with stratified 10-fold CV; addressed age confound, curse-of-dimensionality, and feature redundancy through Mann-Whitney filtering and clinical reasoning
- Reported odds ratios with 95% CIs, Hosmer-Lemeshow calibration test, and Youden's J threshold optimization; grounded interpretation in 8 peer-reviewed sources

Multimodal Analysis of "What I Eat in a Day" TikToks — IDS 506, Spring 2026

- Built a multimodal pipeline (Whisper transcription, EasyOCR, CLIP zero-shot, LLM rubric scoring) analyzing 1,159 TikTok videos for MyPlate nutritional quality and 5 eating-disorder risk signals, with dual-coder hand-annotation of a ~60-video validation subset
- Comparison study of mainstream vs. coded "evasion" hashtags: any-signal prevalence doubled (7.5% → 15.0%) with 3 of 4 testable signals Bonferroni-significant; MyPlate alignment collapsed (3.45 → 0.75, $p < 10^{-64}$); surfaced TikTok moderation gaps for symbol/emoji-coded tags
- Re-architected the final pipeline onto Gemini 2.5 Flash whole-video multimodal analysis, scoring 467 video-days against USDA DGA/HEI-2020 standards (mean diet-quality 49.7/100 vs. 59 NHANES benchmark)

DocDefend+ — Clinical Documentation Defensibility Platform

- Built full-stack web app integrating Claude API with clinical note ingestion pipeline to validate whether E/M documentation justifies assigned billing codes prior to claim submission; applied knowledge of Epic documentation structure and ICD-10/CPT conventions to define validation logic

Theli — Privacy-First iOS Nutrition Scanner — theli.app

- Barcode + on-device OCR food logging, Apple Health sync; independent product, App Store submission in progress

EXPERIENCE

ScribeAmerica — Chicago, IL

Chief Medical Scribe — Aug 2021 – Sep 2023

- Documented 15+ patient encounters per shift across high-volume ED and inpatient settings using Epic EHR, capturing HPI, physical exam, ROS, A&P, and orders
- Developed deep working knowledge of Epic clinical data structure across ED and inpatient modules, including charge capture, order workflows, and documentation standards across ICD-10/CPT coding conventions
- Promoted to Chief Scribe; trained 10+ new hires on clinical documentation standards and provider-specific Epic workflows
- Selected for AI-documentation pilot program; produced throughput analysis demonstrating a 20% productivity gain vs baseline scribe workflow

CERTIFICATIONS

SnowPro Associate: Platform (Snowflake) • AWS Cloud Security Builder • AWS Generative AI Practitioner • Zscaler Zero Trust Architect • Google Cloud BigQuery • Google Cloud Looker • Building with the Claude API (Anthropic)

TECHNICAL SKILLS

Languages: Python, SQL, Java, JavaScript/TypeScript, R

ML/Data: scikit-learn, XGBoost, pandas, numpy, librosa, Whisper, CLIP

BI/Warehouse: Snowflake, BigQuery, Looker, Tableau (learning)

Cloud: AWS (EC2, S3, IAM, KMS, VPC), GCP, Firebase

Healthcare: Epic EHR, HL7/FHIR (foundational), HIPAA, clinical documentation, ICD-10/CPT

Other: Git, Jupyter, Docker, React, Next.js, Swift/SwiftUI

HONORS

- Top 20 Regional — SANS AWS Skills to Jobs CTF (7,498 points)
- 4.0 GPA, MS Management Information Systems