

Tabitha Khadse

AI Software Engineer / Data Engineer / Data Validation & Compliance

Redmond, WA
Remote-Capable
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Professional Summary

Software and data-focused healthcare technology professional with 8+ years of experience working with regulated healthcare data, revenue cycle systems, and payer rule logic. Strong foundation in Python, SQL, backend data workflows, and data validation engineering. Experienced in building data quality logic, evaluating AI-generated outputs, and working across structured and unstructured healthcare data pipelines. Combines healthcare domain expertise with software engineering fundamentals to support AI, analytics, and data platform development in highly regulated environments.

Core Technical Skills

Programming	Python, SQL, JavaScript (Foundational), REST APIs, HTML/CSS
Data Engineering	Data Validation, ETL Validation, Data Profiling, Data Cleaning, Quality Monitoring, PostgreSQL
AI Systems	AI Output Evaluation, Annotation Review, Rubric Design, Model Feedback Workflows, Edge Case Detection
Healthcare	HIPAA Compliance, PHI/PII Handling, Eligibility Validation, Payer Rule Interpretation, RCM Workflows
Tools	GitHub, Jira, Confluence, Linux CLI, Excel (Advanced), VS Code

Professional Experience

- 2026 – **Healthcare Data & AI Quality Engineer, Contract / Consulting, Remote**
- Present
- Evaluated AI-generated healthcare administrative outputs related to eligibility, benefits coordination, and enrollment workflows.
 - Validated structured member and plan data extracted from unstructured emails and insurance documents.
 - Applied payer and provider administrative rule validation including identifier structure, coverage logic, and enrollment verification.
 - Performed manual and tool-assisted PHI and PII redaction under HIPAA-aligned standards.
 - Designed evaluation rubrics to measure AI output accuracy, compliance, and workflow correctness.
 - Documented recurring failure patterns and edge cases to improve model training data and validation logic.

- Oct 2022 – **Academic Sabbatical & Technical Upskilling**, *Full-time Professional Development*
- Oct 2025 ○ Completed **Master of Science in Information Technology** and **Bachelor of Science in Computer Science** to transition into technical engineering roles.
- Built technical projects involving SQL, Python, data analysis, and healthcare-focused systems.
 - Focused on developing skills in data validation, automation, database design, and AI system evaluation.
 - Completed coursework in Databases, Machine Learning, Data Structures, Software Engineering, and Cybersecurity.
- Mar 2019 – **Remote Managed Care Billing Specialist**, *Providence Healthcare Management*, Remote
- Oct 2022 Remote
- Streamlined billing workflows and **reduced processing time by 20%** through data review and process improvements.
 - Improved first-pass claim acceptance rates by identifying recurring denial causes and correcting workflows.
 - Leveraged **PointClickCare** and Excel to track reimbursement patterns and generate management reports.
 - Managed AR aging (30/60/90 days) and resolved complex denials by preparing appeals with medical necessity documentation.
 - Ensured compliance with HIPAA, managed Medicare, and commercial payer rules across high-volume claims (UB-04/CMS-1500).
- May 2017 – **Remote Billing Specialist**, *Richter Healthcare Consultants*, Remote
- Mar 2019 ○ Standardized denial management workflows and prepared appeal packages with supporting documentation to ensure timely reimbursement.
- Generated and analyzed **PointClickCare reports** to track billing performance and AR trends.
 - Collaborated with SNF billing teams to align workflows with payer policy updates and system changes.
 - Managed insurance verification and eligibility for managed care, managed Medicare, and workers' compensation claims.
- Jun 2014 – **Accounts Receivable & Radiology Billing Specialist**, *MSN Healthcare Solutions*
- May 2017 ○ Managed radiology billing for diagnostic and interventional services (X-ray, CT, MRI, Nuclear Medicine).
- Applied complex **CPT 70000-series codes** and modifiers (26, TC, 59, RT, LT) in compliance with NCCI edits.
 - Coordinated with radiology coders, RIS, and PACS teams to ensure proper charge capture and claim integrity.
 - Verified medical necessity (LCD/NCD) requirements prior to submission to prevent downstream denials.

Technical Projects

- Web App **MediTab - Healthcare Dashboard**, *React.js, Node.js, PostgreSQL, HIPAA*
- A HIPAA-compliant healthcare coordination and analytics platform to manage patients, appointments, claims, and billing.
 - Features role-based access control and real-time KPI dashboards.
- Data Tool **Healthcare Denial Pattern Analysis Tool**, *Python, SQL, Automation*
- Built automation scripts to categorize denial root causes and generate reporting outputs.
 - Reduced manual review time and improved operational visibility into denial trends.

- Database **PostgreSQL Data Modeling Project**, *SQL, Schema Design, Optimization*
- Designed normalized relational schemas for analytics workloads, focusing on query performance optimization and data integrity validation.
 - Documented entity-relationship diagrams (ERD) for healthcare data domains.
- Web App **Denial RCM Analytics**, *Excel, JavaScript, Chart.js*
- Transformed raw claims data into insightful KPIs using Excel (Power Query, PivotTables) and web technologies.
 - Features root-cause analysis of preventable denials and dynamic dashboards for executive decision-making.
- AI Agent **Weather Outfit Advisor**, *Vertex AI, Python, Multi-Agent Systems*
- Developed a multi-agent system for the Kaggle Agents Intensive using five coordinated agents to provide personalized suggestions.

Education

- Oct 2025 **Master of Science, Information Technology**, *University of the People*, GPA 3.97
Relevant Coursework: Machine Learning, Cybersecurity, Algorithms, Databases.
- Dec 2023 **Bachelor of Science, Computer Science**, *University of the People*, GPA 3.59
Relevant Coursework: Data Mining, Software Engineering, Data Structures.

Certifications & Training

- In Progress **AI Python Nanodegree** – Udacity
- Completed **PMI Certified Professional in Managing AI** – Project Management Institute
- Completed **AI Agents Intensive Course** – Kaggle (Google)
- Completed **HIPAA Compliance Training** – Healthcare Compliance