

SANTHOSHKUMAR RAJESHKANNAN

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Graduate student pursuing a Master of Science in Biomedical Informatics and Data Science at Arizona State University with a Doctor of Pharmacy (PharmD) background and experience in clinical research, healthcare data analytics, biomedical informatics, and evidence synthesis. Skilled in Python, SQL, R, data visualization, healthcare data standards, systematic reviews, and clinical data management. Experienced in working with large healthcare datasets, developing data-driven research solutions, conducting literature reviews, and supporting interdisciplinary research projects. Passionate about leveraging data science, artificial intelligence, and informatics approaches to advance healthcare research, improve clinical decision-making, and generate meaningful scientific insights.

RELEVANT COURSEWORK & TECHNICAL TRAINING

Biomedical Informatics | Healthcare Data Analytics | Database Systems | Data Mining | Translational Bioinformatics | Clinical Data Standards | Quality Improvement & Healthcare Reporting | Python for Data Analysis | Power BI & Dashboard Development

EDUCATION

Master of Biomedical Informatics and Data Science Arizona State University, Tempe, Arizona, United States	Aug 2025 – May 2027
Doctor of Pharmacy Tamil Nadu Dr. M.G.R Medical University, Chennai, India	Sep 2017 – Dec 2023

PROFESSIONAL EXPERIENCE

Health Data Scientist Intern <i>MindX Sciences, Mayo clinic, Phoenix</i>	Mar 2026 – present
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- Developed and automated clinical data pipelines using **Python, AWS, and GitHub**, improving workflow efficiency, reproducibility, and report generation for biomarker-based mental health diagnostics.
- Supported **CLIA validation, clinical concordance analyses, and empirical threshold calculations** by analyzing clinical and biomarker datasets to advance precision mental healthcare.
- Designed and developed the **MindX Wellness** webpage, tested the **MindX Portal**, and recommended feature enhancements to improve digital health user experience and clinical reporting.
- Built the **MindX Ad (MAD) Engine** using **n8n** and **Railway**, and created **20+ AI-powered marketing videos** using Google Veo, ChatGPT, Claude, and Grok to support the company's digital outreach.
- Collaborated with multidisciplinary research, engineering, and clinical teams on AI-driven healthcare projects, presenting technical solutions and contributing to product development and innovation.

Clinical Data Analyst <i>ConcertAI, Bangalore, India</i>	Mar 2024 – Jul 2025
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- Abstracted, cleaned, and validated large-scale oncology and patient-level healthcare datasets from structured and unstructured clinical sources to support clinical research and reporting workflows.
- Performed data quality checks to identify missing, inconsistent, or inaccurate clinical values prior to downstream analysis and reporting.
- Maintained accurate, traceable documentation to support audit readiness, quality review, and regulatory compliance.
- Collaborated with cross-functional clinical and data teams to prepare high-quality datasets aligned with reporting requirements.
- Supported healthcare data quality improvement by validating clinical datasets, identifying inconsistencies, and maintaining documentation for accurate reporting.

Graduate Service Assistant <i>Arizona State University</i>	Jan 2026 – present
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- Conducting a systematic review of AI-based mental health applications using FUTURE-AI guidelines, evaluating model transparency, usability, bias, and clinical relevance across digital health tools.
- Screened and extracted structured data from research studies in accordance with PRISMA methodology, synthesizing findings into evidence tables to support insights on the effectiveness and limitations of AI-driven mental health solutions.

Graduate Research Intern

ASU Biodesign Institute

Sep 2025 – May 2026

- Designed and developed an interactive cancer genomics dashboard using Streamlit and Plotly to visualize cohort-level metrics and support data interpretation.
- Built Python scripts to automate data wrangling, preprocessing, and quality control for structured healthcare and genomic datasets.
- Improved reproducibility of data workflows through standardized preprocessing and transformation steps.

Clinical Pharmacist Intern

Sri Ramakrishna Hospital

Dec 2021 – Dec 2023

- Conducted medication reconciliation and reviewed prescription, OTC, and supplement use to identify drug interactions and therapy optimization opportunities.
- Monitored adverse drug reactions and documented findings in accordance with hospital and regulatory guidelines.

SKILLS

Healthcare Data & Quality Improvement: Dataset validation, data cleaning, data quality checks, registry reporting support, clinical data abstraction, audit documentation

Analytics Tools: Python, SQL, R, SAS, Power BI, Excel, Streamlit, Plotly

Healthcare Systems & Standards: EHR data, HL7, FHIR, ICD, SNOMED, LOINC

Research & Reporting: PRISMA, systematic reviews, evidence synthesis, report preparation, clinical documentation

PROJECTS

EPIC-Integrated Clinical Decision Support Tool for Dietary Restrictions

Jan 2026 – May 2026

Developed an EPIC-integrated clinical decision support tool designed to reduce errors in dietary restriction documentation and improve patient safety. Mapped clinical workflow gaps related to diet orders and restriction alerts, supporting more accurate communication across care teams. Designed the tool to support real-time decision-making, reduce documentation errors, and improve consistency in patient dietary management.

Systematic Review of AI-Based Mental Health Apps (FUTURE-AI Guidelines)

Jan 2026 – present

Conducting a systematic review of AI-driven mental health applications using the **FUTURE-AI framework** to assess trustworthiness, clinical relevance, and ethical readiness across the AI lifecycle. Synthesizing evidence on fairness, robustness, explainability, and real-world deployment considerations to identify research gaps and best practices in healthcare AI evaluation.

Nutritional Tradeoff and Gut Microbiota

Sep 2025 – present

Analyzing the relationship between nutrient intake and gut microbiota composition using metagenomic and clinical metadata. Automated data preprocessing and quality control through shell scripting to ensure reproducibility and efficiency in large-scale microbiome analysis.

Effect of Synbiotics on Serum Uremic Toxins in End-stage renal failure patients

Dec 2021 – Aug 2023

Investigated the potential therapeutic impact of synbiotics supplementation on reducing serum uremic toxin levels in patients with End-Stage Renal Failure Disease (ESRD).