

Saranya Arun Kumar

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EDUCATION

- **Masters of Professional Science in Biomedical and Health Informatics** Aug 2021 - May 2023 (Expected)
University of North Carolina Chapel Hill, NC
- **Doctor of Pharmacy** June 2014 - June 2020
Osmania University Hyderabad, India

SKILLS SUMMARY

- **Technical Skills:** Relational Databases and SQL (**MySQL, BigQuery, PostgreSQL**), Standard medical coding (**CPT, ICD10, SNOMED**, etc.) in OMOP database, Python, Microsoft Excel (Data simulations and validation, **Pivot tables, IF, SUM, INDEX, VLOOKUP, XLOOKUP**, Charts and graphs) and PowerPoint, Tableau, Project Management and leadership
- **Clinical Skills:** Patient counselling, assessing, monitoring and reporting Adverse Drug Reactions to the ADR monitoring centers, clinical data management, handling patient health record, providing information on drugs and diseases to patients and physicians

EXPERIENCE

- **Graduate Research Assistant** June 2022 - Present
Prof. Fei Yu School of Information and Library Science, UNC Chapel Hill
 - **A Bibliometric Study:** Surveyed scientific investigations and research on African American health impacted by COVID-19
 - **Research Paper Screening:** Used Covidence (web-based application) to manually screen 6500 citations for the project
 - **A Multi-Data-Source Approach:** Currently analysing the collected data to unearth statistical correlations
- **Clinical Informatics Intern** May 2022 - Nov 2022
Perinatal Research Center UNC Chapel Hill, NC
 - **Analysis of Research Trends:** Conducted in-depth survey of recent perinatal research to identify areas of highest impact
 - **Tableau Visualization:** Worked on uncovering gaps in the research by visualizing data sourced from CDS, WHO and NIH
 - **Research Talks:** Delivered multiple research talks on essential areas concerning pregnancy and postpartum
- **Clinical Pharmacist Intern** July 2019 - July 2020
Malla Reddy Hospital Hyderabad, India
 - **Prescription Screening:** Determined whether the prescribed medications is in accordance with the patient's diagnosis
 - **Drug Information and Counseling:** Provided counselling to physicians and patients regarding diseases and medications
 - **Case Presentations:** Lead weekly presentations with an interdisciplinary team of physicians and other healthcare providers

ACADEMIC PROJECTS

- **Improving User Experience in Sakai/Canvas** Jan 2022 - May 2022
Prof. Selena Sharmin School of Information and Library Science, UNC Chapel Hill
 - **Scrum master:** Responsible for leading a team of 5, setting team processes and ensuring the team achieves the agreed goals
 - **Survey:** Surveyed of students and professors and analysed the feedback to identify problems with the user interface
 - **Improving User Satisfaction:** Created 4 models based on the survey feedback and collaborated with the IT team to incorporate the necessary amendments
- **Data Visualization on Colorectal Cancer Statistics** Jan 2022 - May 2022
Prof. Bradley M. Hemminger School of Information and Library Science, UNC Chapel Hill
 - **Tableau Visualization:** Created tableau visualizations for Colorectal Cancer Statistics in the US from 2014-2018
 - **Visualizing Statistics:** Created butterfly, GIS, side-by-side, line, pie and diverging bar charts to visualize various statistics
- **Resisting Resistance-Public Health** Jan 2022 - May 2022
Prof Lori Evarts Gilling's School of Global Public Health, UNC Chapel Hill
 - **Project Manager:** Responsible for managing a team of 6 by planning and developing the idea to complete the project on time and in adherence to the allocated budget. Also in charge of collaborating with stakeholders to ensure their satisfaction
 - **Science Expo 2022:** Produced an exposition aimed at increasing awareness of antibiotic resistance and misuse
- **A Study to Assess Prescribing Patterns of Antibiotics** Aug 2019 - Feb 2020
Department of Paediatrics Malla Reddy Hospital, Hyderabad, India
 - **Assessment:** Assessed the prescribing patterns according to the patient condition in pediatrics and NICU
 - **Chi-square Statistical Test:** Represented results of the majorly prescribed antibiotics, their drug interactions and ADRs

PUBLICATIONS

- Production of L-Arginase Under SSF and its Optimization - Mintage Journal of Pharmaceutical & Medical Sciences, 2018
- Thalassemia: A Review - Asian Journal of Pharmaceutical Research, 2018
- Biogenic Synthesis of Silver Nano Particles Using Endophytic Fungi P. Chrysogenum Isolated from the Leaves of Withania Somnifera and its Antibacterial Activity - International Journal of Research in Pharmacy and Biosciences, 2018
- A Review on Swine Flu - Asian Journal of Pharmacy and Technology, 2018