



Elizabeth Houghton

RESEARCH AND DATA ANALYST


Lab Professional with over 5 years of healthcare experience which includes microbiology, information technology and wet-lab environments. Two years in direct patient care and three years in a laboratory setting. I am excited to combine my education in Data Analytics at NSS with my laboratory experience in order to answer complex problems and puzzles. I place high value on the quality of my work and enjoy working in a collaborative and teaming environment.


CONTACT

 615.336.8231

 e.houghton418@gmail.com

 Franklin, TN

 <https://www.linkedin.com/in/elizabeth-houghton18/>

 <https://github.com/ehoughton>

SKILLS

Professional

Complex Problem Solving
Decision Making
Adaptive Communication
Time Management

Technical

Postgres SQL
Python | Jupyter Notebooks
Excel | PowerPivot, vlookup
PowerBI
Tableau
Epic
Cerner

ORGANIZATIONAL INVOLVEMENT

VUMC Lab Communication
Committee

Editor-in-Chief of VUMC Lab-Wide
Newsletter

EDUCATION

Data Analytics Bootcamp Certificate
Nashville Software School, 2021

Bachelor's Degree
University of Tennessee, 2019
B.S. in Microbiology
Minor in Information Technology

PROFESSIONAL EXPERIENCE

Data Analytics Apprentice

NASHVILLE SOFTWARE SCHOOL / 2021

Nashville Software School is a community focused, Non-Profit organization that allows individuals in the Nashville area to learn, understand, and excel in data topics through hands-on and project-based training.

- SQL, PowerBI, TP53 – Analyzed the occurrence of the p53 gene in mice and the length of each gene. Created a dashboard to show and discuss findings.
- Tableau – X and Y Chromosomes – Created a dashboard to show the number of genes on both the X and Y chromosomes. Showcased the evolutionary depletion of genes on the Y chromosome in comparison to the X chromosome
- SQL – App Trader Project – Utilized data from various mobile app stores to find the top 10 most profitable apps
- Tableau – Rocket Propulsion – Created a Dashboard to look at the physics of a rocket propulsion experiment conducted by the University of Tennessee. Created a slicer to explore data when rocket was accelerating and decelerating

Cytotechnician II

VANDERBILT UNIVERSITY MEDICAL CENTER / 2019 - 2020

The cytopathology department studies and diagnoses tissue at the cellular level. Laboratory samples are received from surgical procedures and are then processed and hand stained to be viewed underneath a microscope.

- Responsible for receiving all specimens that arrive at the laboratory, entered specimen data into Epic and Cerner and ensured all specimens were labelled correctly
- Triageed specimens based on specimen type, patient history and tests ordered in order to expedite laboratory turn-around time
- Prepared hand-stained slides according to specimen type and SOP's, tracked all chemical stains and changed stains when required, received and ordered laboratory supplies
- Utilized Excel to create a dashboard showcasing data collected from Cerner regarding monthly statistics for problem specimens

Product Technician

MEDIC REGIONAL BLOOD BANK / 2017 - 2019

Medic Regional Blood Bank is a Non-Profit blood bank that screens, collects, and processes blood from volunteer donors. The Processing Lab received all collected blood and separated it into its components.

- Received all blood units and ensured every unit collected was accounted for before it went into processing, received all platelets and ensured they were transported correctly according to Quality Control policies
- Separated blood into red blood cells and plasma through centrifugation, made different plasma products according to the appearance, gender and blood type, and documented every step via El Dorado Donor software
- Maintained blood, plasma and platelet quality standards as regulated by the FDA