

NATASHA KODGI

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EDUCATION

M.S. Biomedical Engineering, Focus: Systems Modeling and Bioinformatics

Georgia Institute of Technology, GPA: 4.0

December 2025

Atlanta, GA

B.S. Bioengineering, Track: Biotechnology and Therapeutics Engineering

Minor: Technology Entrepreneurship

University of Maryland, GPA: 3.7

May 2021

College Park, MD

SKILLS

Languages: Python, Bash, MATLAB, R, SQL

Software/Tools: Tableau, Ubuntu WSL2, Docker, Nextflow, Conda, Git, BLAST, NCBI Databases, Power BI

Clinical and Biotech Operations: CAR-T Cell Engineering and Data Trending, Lean Six Sigma Principles, Root Cause Analysis, Deviation Reporting, Veeva, LIMS, SAP, Regulatory Submission Support, Quality Review

Data Analytics: Data preprocessing, Data Validation, Anomaly detection, Requirements-Driven analytics, Dashboard development

WORK EXPERIENCE

Z - Score Health, Ascendia® Innovation & Research Fellow (ABD.i Co-Founder)

May 2025 – August 2025

- Co-founded and developed an early-stage clinical informatics analytics product (Anomaly, Bias, and Detection Interface) through a venture-oriented biomedical research fellowship.
- Built a modular analytics workflow to identify data quality issues, trends, and demographic bias in clinical trial spreadsheets, supporting reporting and decision-making for clinical trial coordinators.
- Designed a Streamlit-based interface for interactive exploration of patient distributions and inequities in trial design.

Leidos Biomedical Research, CAR T-Cell Therapy Associate

September 2022 – December 2024

- Supported GD2, CD33, and STEAP CAR-T clinical programs by performing batch-level data analysis with Python and Excel, deviation tracking, and GMP-compliant documentation.
- Managed the setup and operation of CliniMACS Prodigies for all CAR T-cell therapy patient runs, ensuring precision and compliance to FDA GMP standards.
- Partnered with R&D to execute tech transfer and scale-up of GMP cell therapy processes, applying Lean Six Sigma methods to improve reliability and reduce process variability.

Emergent BioSolutions, Manufacturing Associate

June 2021 – August 2022

- Conducted data-driven root cause analysis techniques to support QA investigations on manufacturing-related deviations.
- Reviewed batch documentation and materials data using Veeva and SAP to support purchase order backlog and QA initiatives.
- Supported Validation, Engineering, and Facilities personnel in the start-up, testing, troubleshooting, and operation of MFG incubators, wave reactors, single-use bioreactors, and single-use mixers in alignment with SOPs.

COMPUTATIONAL PROJECTS

PresSure Breast Health Monitor, Uncommon Sense Labs, Graduate Researcher

January 2025 – December 2025

- Developed pressure-based sensing system using FSR technology and air-bladder mechanics for early breast abnormality detection.
- Collaborated with a multidisciplinary team to develop a Streamlit-based analytics interface for quadrant-level pressure visualization.
- Performed experimental validation using breast phantoms, generating interpretable metrics for early detection.
- Placed 3rd amongst Genesis Teams for the Startup Exchange Summit Competition Georgia Tech

Computational Genomics, Graduate Student

January 2025 – May 2025

- Utilized Ubuntu and Miniforge (Conda) environments with Bioconda to fetch FASTQ data, assess read quality, trim low-quality reads, and assemble high-quality genomes using SKESA and SPAdes.
- Developed a Nextflow workflow to automate FASTQ data processing, including reading, cleaning, trimming, and annotation.

Quantifying Norovirus Transmission in Restaurants, Computational Epidemiology Researcher

August 2025 – December 2025

- Built a stochastic, discrete-time SEIR-type transmission model to simulate norovirus spread in U.S. restaurant settings.
- Calibrated the model to ~1,980 CDC NORS outbreak reports using grid search, weighted percentile matching, and K-fold cross-validation to match empirical outbreak-size distributions.
- Evaluated food-worker exclusion and hygiene interventions across compliance levels, quantifying outbreak size impacts.