

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, MATLAB, R, Bash, SQL

Software: Ubuntu WSL2, Docker, Nextflow, Conda, Tableau, Git, BLAST, NCBI Databases

Data Analytics: Data preprocessing, Validation checks, Anomaly detection, Dashboard development

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

TECHNICAL AND WORK EXPERIENCE

Z - Score Health, Ascendia® Innovation & Research Fellow (ABD.i Co-Founder)	May 2025 – August 2025
<ul style="list-style-type: none">Co-founded and developed an early-stage clinical informatics and analytics product through a venture-oriented biomedical research fellowship.Engineered a modular Python workflow for clinical trial datasets, combining anomaly detection, validation checks, and demographic bias analysis.Designed a Streamlit-based interface for interactive exploration of patient distributions and inequities in trial design.	
Leidos Biomedical Research, CAR T-Cell Therapy Specialist	September 2022 – December 2024
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Conducted 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.	

PROJECTS

Pressure Breast Health Monitor, Uncommon Sense Labs, Graduate Researcher	January 2025 – December 2025
<ul style="list-style-type: none">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 visualization of pressure data.Performed experimental validation using breast phantoms, generating interpretable metrics for early detection.	
Computational Genomics, Graduate Student	January 2025 – May 2025
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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.	