Suraj Menon

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EDUCATION

University of Michigan   **Ann Arbor, MI**
MEng in Medical Product Engineering and Development   *August 2024-May 2025*
GPA 4.00/4.00
B.S.E. in Biomedical Engineering   *August 2020-May 2024*
Minor in Computer Science, Multidisciplinary Design
GPA 3.68/4.00
Coursework: Biomedical Instrumentation and Design, Artificial Intelligence and Machine Learning, Biostatistics, Tissue Engineering, Biophysical Chemistry, Quantitative Cell Biology. Biofluid Mechanics

EXPERIENCE

Becton, Dickinson and Company   **Irvine, CA**
Software Development Engineer   *June 2025-present*
- Working as a GUI Software Engineer on the HemoSphere Alta Advanced Patient Monitoring platform
- Refactored pressure cable communication code using inheritance patterns, reducing code volume by 45%
- Introducing automated lint check tool within Azure DevOps pipeline to augment software quality

Center for Health Engineering and Patient Safety   **Ann Arbor, MI**
Software Engineer   *May 2024-May 2025*
- Designed discrete event simulation in python to model Michigan Medicine schedules and patient appointment requests to generate metrics on schedule utilization, patient delay time, and patient volume
- Employed Agile Development to accelerate prototype development across functional teams
- Constructed core simulation database to be used across 3 Michigan Medicine joint projects
- Finalized departmental tool to schedule 50% of new patients within 2 weeks of their appointment request

University of Michigan   **Ann Arbor, MI**
Research Assistant   *May 2021-May 2025*
- Applied machine-learning using python sklearn to predict metabolic variation across 1000 cancer cell lines from matched oct-omics data to classify major influencers of cancer metabolism
- Ran Shapley Analysis to discover redox metabolism and signaling-related transcripts, features, proteins, and phosphoproteins as top global regulators for 225 metabolites in cancer metabolome
- Unveiled main predictors for use in combination therapies to target compensatory metabolic modulators

Procter & Gamble   **Lima, OH**
Packing Operations Intern   *May 2023-August 2023*
- Implemented product reject tracking system to reduce net savings losses by $9,325
- Configured digital interlock to standardize product changeover process to limit reject scrap by 10%
- Generated Power BI dashboard to easily identify trends in material losses across 8 production lines
- Executed hands-on technical trainings with 22 operational teams to ensure operational excellence

PROJECTS

Team Preventative, Accessible, Cervical Testing (PACT)   **Ann Arbor, MI**
Project Co-Founder and Lead   *August 2021-May 2025*
- Founded project to design a non-invasive cervical cancer screening urine collection device for the Korle Bu Hospital in Ghana to enhance the 2.5% cervical cancer screening rate for women in Accra
- Led team of 20 engineers to design a prototype in SolidWorks for clinical testing with 300 patients
- Partnered with faculty and industry mentors to draft proposal for $150,000 Gates foundation grant
- Published research paper in International Journal of Gynecology and Obstetrics showing 85% of established clinicians prefer novel non-invasive screening method to pap smears

SKILLS

- **Programming:** Python, C/C++, C#, Java, JavaScript, TypeScript, MATLAB, SQL, .NET, HTML, CSS
- **Tools, Platforms, OS:** GitHub, Azure DevOps, Visual Studio, Windows, Linux, macOS, Power BI
- **Engineering, Simulation, CAD:** SOLIDWORKS, Autodesk Fusion 360, COMSOL Multiphysics