






# Ritvik Jillala

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## Education

**B.S.E, Biomedical Engineering & Computer Science / University of Michigan, Ann Arbor / May 2022**

**GPA:** 3.90/4.00 **Coursework:** Introduction to Computer Organization, Data Structures & Algorithms, Circuits and Systems for BME, Biophysical Chemistry and Thermodynamics

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## Experience

**Blueprints For Pangaea / Intern / September 2020 - Current**

- Formulated and initiated 5-year plan for expansion and establishment of chapters across North America
- Focused on reallocating 100,000 pounds of excess, unused medical supplies to areas of need overseas
- Participated in shipments with Project CURE accumulated to over \$3.3 million to area of need

**University of Michigan Biomedical Engineering / Instructional Aide / December 2020 - Current**

- Assisted professors to teach Circuits and Systems for BME to ~80 undergraduate students
- Led lab instruction, provided ~30 students with an understanding of biomedical instruments and circuits
- Hosted office hours, communicated effective methods to solve problems and understand material

**Center for Healthcare Engineering and Patient Safety / Research Assistant / December 2020s - Current**

- Developed effective strategies to improve access in the COVID-19 system recovery phase at VA Ann Arbor
  - Interacted with clinical professionals and gained experience about challenges involved in medical practice
  - Contributed to healthcare projects to increase efficiency and scheduled at Michigan Medicine
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## Activities

**The Initiative / Heated Subteam Lead / September 2020 - Current**

- Designed a thermoregulation system and mattress to regulate neonatal body temperature
- Integrated w/bassinets consisted of clothed carrier supported Kangaroo Care between neonate and caretaker
- Focused on reduced neonatal mortality in underdeveloped countries – 80% of neonatal deaths caused by low birthweight, mainly due to lack of thermoregulation in low resource communities

**Project RISHI / Project Research & NGO Search Committee Chair / September 2020 – Current**

- Initiated and implemented 3-year plan for establishment and maintenance of toilets in Seithur, Tamil Nadu
- Managed 8-9 students to arrange and execute toilet construction project, reduced open defecation
- Facilitated contact and maintained relationships with local non-government organization to set up project

**VA Ann Arbor Healthcare System / Volunteer/ October 2020 - Current**

- Performed preliminary screening for patients and visitors that entered the hospital for 4 hours a week
- Assisted veterans to create online accounts to receive their federal benefits

**Ann Arbor Math Olympiad Club / Student President / September 2017 – June 2019**

- Managed math mentorship program for ~200 students ranged from 6<sup>th</sup> – 12<sup>th</sup> grade
  - Provided internship, leadership, networked opportunities to students, as well as assisted teaching math lecture
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## Skills

- **Programming** – Python, C, C#, C++, Ruby, R, Arduino, LabVIEW, Simulink, HTML5, CSS, JavaScript, UI, SQL, MultiSIM, MATLAB, Microsoft Office, CAD
- **Soft** – Teamwork, Statistical Analysis, Innovativeness, Diligence, Communication, Honesty, Curiosity
- **Certifications** – First Aid, CPR
- **Health** – PCR, Cell Culture, Molecular Biology