Ritvik Jillala

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Education

BSE in Biomedical Engineering & Computer Science / University of Michigan, Ann Arbor / May 2022

GPA: 3.88/4.00   **Coursework:** Introduction to Computer Organization, Data Structures & Algorithms, Circuits and Systems for BME, Biophysical Chemistry and Thermodynamics

Experience

Intern / Blueprints For Pangaea / September 2020 - Current
- Developing and initiating five-year plan for expansion and establishment of chapters across North America
- Student-run non-profit org focused on reallocating excess, unused medical supplies to areas of need overseas
- Assisted in shipments accumulating to over $3.3 million and 100,000 pounds

Heating / The Initiative / September 2020 - Current
- Designing a thermoregulation system and mattress to regulate neonatal body temperature
- Integrating w/bassinet consisting of clothing carrier supporting Kangaroo Care between neonate and caretaker
- Focusing on reducing neonatal mortality in underdeveloped countries – 80% of neonatal deaths caused by low birthweight, mainly due to lack of thermoregulation in low resource communities

Water Transport Technology / BlueLAB India / September 2019 - Current
- Developing an efficient water transport system in rural India to prevent numerous arthritic issues
- Ensuring product's cost-efficiency and usage of materials present near area
- Preventing the need for women and children to carry heavy pots with fresh water across long distances

Activities

Project Research & NGO Search / Project RISHI / September 2020 - Current
- Initiating and developing three-year plan for establishment and maintenance of toilets in Seithur, Tamil Nadu
- Establishing contact and maintaining relationships with local non-government organization to set up project

Student President / Ann Arbor Math Olympiad Club / September 2017 – June 2019
- Managed math mentorship program for ~200 students ranging from $6^{th} – 12^{th}$ grade
- Provided internship, leadership, networking opportunities to students, as well as assisted teaching math lecture

Volunteer / Beaumont Physical Therapy / August 2017 – June 2019
- Admitted and directed patients to medical imaging centers (X-Ray, MRI, CAT)
- Spent 2 hours a week stocking linen, cleaning equipment, and shadowing physical therapists

Skills

- **Programming** – Python, C, C++, Ruby, R, Arduino, LabVIEW, Simulink, HTML/CSS, SQL, MultiSIM, MATLAB, Microsoft Office, Outlook, Visio, Access, Flutter
- **Certifications** – First Aid, CPR
- **Soft** – Problem Solving, Teamwork, Statistical Analysis, Innovativeness, Diligence, Communication
- **Health** – PCR, Cell Culture, Molecular Biology