

RUMA DEB

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EDUCATION

University of Michigan – School of Information	Ann Arbor, MI
Bachelor of Science in Information (Minor in Multidisciplinary Design Program)	May 2022
<ul style="list-style-type: none">• User Experience Design and Information Analysis	
Universitat de Vic, Barcelona, Spain (<i>Study Abroad</i>)	May 2019

PROFESSIONAL EXPERIENCE

DENSO – Multidisciplinary Design Program	Jan. 2021 – Present
<i>Programmer and UI/UX Designer</i>	
<ul style="list-style-type: none">• Achieving familiarity with DENSO's core processes in commercial management• Developing a platform to support the management of product launches within a global network	
University of Michigan Transportation Research Institute, Ann Arbor, MI	Jan. 2020 – Dec. 2020
<i>Human Cognition Specialist, Dr. Flannagan and Dr. Klinich</i>	
<ul style="list-style-type: none">• Systemized the building of processes and tools needed to develop efficient, unbiased, computer vision algorithms for use on research datasets• Developed labeling protocol for video data extraction of vehicle occupant behavior to improve machine learning's efficiency and accuracy in recognizing important objects• Applied principles of human cognition to process efficiency of algorithm development	
Nephrology Lab, Ann Arbor, MI	Oct. 2018 - May 2019
<i>Research Assistant, Dr. Pennathur</i>	
<ul style="list-style-type: none">• Collaborated with the Nephrology Department to consent patients in clinical treatment• Recorded, calculated and analyzed healthcare datasets spanning 5 years using Excel and Velos to model data visualization tables and charts as results• Produced actionable insights to study the correlations related to chronic kidney diseases	

COURSE PROJECTS

U.S Healthcare Analysis using Python, APIS, SQL, Plotly
<ul style="list-style-type: none">• Designed a data analysis program to gather data from Census and healthcare APIs to study factors such as income, healthcare costs, its effects on insurance coverage and life expectancy

LEADERSHIP EXPERIENCE

Girls Who Code, Ann Arbor, MI	Sept. 2019 – April 2020
<i>Executive Committee</i>	
<ul style="list-style-type: none">• Facilitated a collaborative and supportive environment for high school women of all skill levels and backgrounds interested in learning how to code	
MedLaunch, Ann Arbor, MI	Sept. 2019 – April 2020
<ul style="list-style-type: none">• Conceptualized and developed innovation-in-healthcare projects at the intersection of art, science and engineering to create autonomous painting setup for quadriplegic artists.	
PILOT, Ann Arbor, MI	Oct. 2018 - May 2019
<ul style="list-style-type: none">• Organized a student organization focused on the leadership development of first-gen and underrepresented students by hosting social justice themed workshops	

SKILLS

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- Applications: Python, C++ (Beginner), SQL, JSON, HTML, CSS MS Excel
 - Engaged with Jupyter, GitHub, MATLAB, R, Google Colab, Velos eResearch, Affinity Diagraming, Wireframing, Prototyping, Personas/Scenarios, Interviews, Surveys, Usability Testing