

# Raul Dutta

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## EDUCATION

University of Michigan (Ann Arbor)

BSE Computer Science Engineering

GPA 3.91/4.0

Course Work: Operating Systems, Web Systems, Machine Learning, Functional Programming

Graduation May 2022

Ann Arbor, MI

## EXPERIENCE

JP Morgan

Jul 2020-Present

Software Engineering Program Intern

Ann Arbor, MI

- Created a Flask Python server to automate custom email lead capture for Neighborhood Housing Services
- Developed and designed chat-bot using BotPress and TypeScript modules to assist homeowners in Chicago to find grants and resources to allow the reallocation of approximately 1,664 volunteer hours

Keyword: Data

September 2019-July 2020

Project Manager

Ann Arbor, MI

- Led team to pitch a unique AI assistant solution to collect predictive maintenance data from maintainers. As a result, our team won the Intro to the Dataverse: Hackathon and a 15k contract to expand the idea
- Conducted over 20 end customer discovery interviews and lead the ideation process to deliver a finalized white paper on the role of an AI assistant can play in the Department of Defense's maintenance crew

OSIRIS

May 2019 – January 2020

Computer Science Consultant

Ann Arbor, MI

- Created a script to automate source control Grafana server information across several endpoints to display data in a way that can be monitored and read by database maintainers.
- Created an open source Globus Startup Module in C that does an automatic LDAP look up on start up
- Tested LDAP look up module and pushed into production

## PROJECTS

Off Hours

May 2020-Present

Product Manager and Full Stack

Troy, MI

- Developed an educational streaming site using a Flask Python backend along with Twitch API, React JavaScript frontend, and a SQL database
- Conducted fifty end-customer interviews to aid in whiteboarding feature development of over fifteen features
- Managed team using Agile practices and Jira board to rapidly iterate on product design and development under the mentorship of Professor Soloway

UMICH Autonomy

Sep 2018 – Sept 2019

Member under AI department

Ann Arbor, MI

- Designed path finding algorithm using modified A\* algorithm to allow boat to navigate around obstacles autonomously in a nonlinear fashion
- Implemented weighted map based on obstacles using C and a ROS packages within a larger module

## INTERESTS

Poetry

- Published in small magazines such as Skipping Stone and The Zine
- Won spoken word competition Louder than a Bomb

## SKILLS

- Computer Languages: React JS, C/C++, Python, OCaml, MatLab, HTML/CSS
- Operating System: WSL, Ubuntu, Mac OS, Windows, Linux command line
- Languages: Bengali(spoken), German(intermediate)