

Raul Dutta

duttar@umich.edu | (248) 225-7238 | linkedin.com/in/rauldutta/

EDUCATION

University of Michigan (Ann Arbor)

BSE Computer Science Engineering

GPA 3.91/4.0

Machine Learning, Data Structures and Algorithms, Functional Programming, Web Systems

Graduation Winter 2021

Ann Arbor, MI

EXPERIENCE

JP Morgan

Software Engineering Program Intern

Jul 2020-Present

Ann Arbor, MI

- Developed and designed chat-bot using BotPress to assist homeowners in Chicago to find grants and resources
- Created server to automate lead capture for Neighborhood Housing Services Site using Flask Python

Keyword: Data

September 2019-July 2020

Project Manager

Ann Arbor, MI

- Collaborated with members to pitch and win Intro to the Dataverse: Hackathon and won 15k in funding
- Lead research and development of white paper on an AI assistant to help mechanic maintainers and to collect data for predictive maintenance.

OSIRIS

Computer Science Consultant

May 2019 – January 2020

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

Product Manager and Full Stack

May 2020-Present

Troy, MI

- Developed an educational streaming site using a Flask Python backend along with Twitch API, React JS 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

Member under AI department

Sep 2018 – Sept 2019

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
- Implemented Git to merge multiple modules together to create single interface for finding weighted path
- Wrote framework for flight module in ardupilot in C

INTERESTS

Poetry

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

SKILLS

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