**Raul Dutta**

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

Seeking Summer and Winter(Jan-May) Software Engineering Internship

**EDUCATION**

**University of Michigan - Ann Arbor Graduation May 2022**

*BSE Computer Science Engineering Ann Arbor, MI*

GPA 3.9/4.0

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

**EXPERIENCE**

**J.P. Morgan Chase Jul 2020 – Aug 2020**

*Software Engineer Intern Chicago, IL (Remote)*

* Automated custom email lead capture by creating a Flask Python server for Neighborhood Housing Services
* Developed and designed chat-bot using BotPress and TypeScript modules to assist Chicago homeowners to locate grants and resources to allow the reallocation of approximately 1,664 volunteer call-operator hours

**Keyword: Data Sep 2019 - Jul 2020**

*Project Manager Ann Arbor, MI*

* Led team to win the Intro to the Dataverse: Hackathon and a 15k contract from the Department of Defense
* Delivered a white paper on an AI assistant to collect predictive maintenance from mechanics leading to approximately 10% faster turnaround times
* Conducted 20+ end customer discovery interviews and integrated it within the ideation process

**OSIRIS May 2019 - Jan 2020**

*Computer Science Consultant Ann Arbor, MI*

* Designed 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**

*Full-Stack Software Engineer and Product Manager Troy, MI*

* Developed an educational streaming site using a Flask Python backend along with Twitch API, React JavaScript frontend, and a SQL database
* Interviewed 50 end-customers 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 - Sep 2019**

*Software Engineer on AI Team Ann Arbor, MI*

* Designed path finding algorithm using modified A\* algorithm to navigate an autonomous boat around obstacles 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: JavaScript, C/C++, Python, OCaml, MATLAB, HTML/CSS, SQL
* Frameworks: React JS, Flask
* Operating System: WSL, Ubuntu, Mac OS, Windows, Linux command line
* Secondary Languages: German(intermediate), Bengali(spoken)
* Tools: Git, Bashscript, Docker, Hadoop