Raul Dutta

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Seeking Summer and Winter 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

JP 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