

Raul Dutta

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Seeking positions for New Grad Software Engineering starting Summer 2022

EDUCATION

University of Michigan - Ann Arbor

MSE Electrical Computer Engineering – Computer Vision

GPA: 4.0/4.0

Course Work: Advanced Computer Vision, Intelligent Programming Interfaces

Graduating May 2022

Ann Arbor, MI

University of Michigan - Ann Arbor

BSE Computer Science Engineering

GPA: 3.9/4.0

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

Sep 2018 - May 2021

Ann Arbor, MI

EXPERIENCE

Roblox

Software Engineer Intern

May 2021 – Aug 2021

San Mateo, CA (Remote)

- Constructed Developer Framework UI Library component to dynamically truncate text labels to fit width
- Created a Breakpoint/Logpoint Window component using Lua/Roact to facilitate debugging process for developers
- Conducted internal investigation to understand code logic and pain points of old C++ debugger for overhaul

J.P. Morgan Chase

Software Engineer Intern

Jul 2020 – Aug 2020

Chicago, IL (Remote)

- Automated custom lead capture by creating an email Flask Python server for Neighborhood Housing Services
- Developed and designed chat-bot using BotPress and TypeScript modules to assist homeowners to locate grants and resources to allow the reallocation of approximately 1,700 volunteer call-operator hours

Keyword: Data

Project Manager

Sep 2019 - Jul 2020

Ann Arbor, MI

- Led team to win the Intro to the Dataverse: Hackathon and a 15k contract from the Department of Defense
- Wrote white paper on AI assisted data collection for predictive maintenance to expedite aircraft maintenance by 10%
- Conducted 20+ end customer discovery interviews and integrated it within the ideation process

OSIRIS

Computer Science Consultant

May 2019 - Jan 2020

Ann Arbor, MI

- Created an open source Globus Startup Module in C that does an automatic LDAP look up on start up
- Wrote bash script to automate source control for Grafana endpoints to update server dashboard and info
- Designed Grafana dashboard to display server data for database maintainers across three data centers

PROJECTS

Off Hours

Full-Stack Software Engineer and Product Manager

May 2020 – Sep 2020

Troy, MI

- Conducted over 50 end-customers interviews to design a democratized educational streaming platform
- Developed Flask Python backend to service Twitch API tokens and connect to an SQL database
- Created a profile, home, video, and search page using React JS and Material UI and connected with Twitch API
- Managed team using Agile practices and Jira board under the mentorship of Professor Soloway

SKILLS

- Computer Languages: Lua, JavaScript, C/C++, Python, OCaml, MATLAB, HTML/CSS, SQL
- Frameworks: React JS, Flask, Rodux/Roact
- Operating System: WSL, Ubuntu, Mac OS, Windows, Linux command line
- Tools: Git, Bashscript, Docker, Ninja
- Secondary Languages: English(Native), German(Intermediate), Bengali(Native)