

Rohit Musti

portfolio website: <https://rohitmusti.dev> github: <https://github.com/rohitmusti>

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Education

University of Virginia	Undergraduate GPA: 3.5, Graduate GPA: 3.7
Bachelors of Arts, CS '19	Honors: Jefferson Scholar (full ride merit scholarship), Echols Scholar, Dean's List
Masters of Science, CS '20	Focus: Deep Learning, Clustering, Natural Language Processing, Algorithms, Cryptography, Social Impacts of Technology

Work Experience

Red Hat: AI Center of Excellence

AI Research Intern, Summer 2019

- Designed internal dataprocessing pipeline to clean and featurize for pre-processing client interactions
- Researched NLP question and answering and text generation techniques, working towards a client-facing bot
- Identified structural issues with the state of the art NLP techniques that prevent scalable solutions

Amnesty International: Urgent Action Network

Consulting Developer, Fall 2018 - Present

- Creating a data analytics dashboard for the Urgent Action Network and new member interface
- Coordinating a remote volunteer team (divying up work and sticking to the delivery schedule) with a larger Amnesty effort
- Developing security protocols for writing and retrieving confidential data

Red Hat: Open Innovation Labs

SRE Intern, Summer 2018

- Worked directly with the software reliability engineering team to solve pressing back log items to stabilize dev-ops pipeline
- Automated infrastructure deployment of Open Shift and all relevant tooling, saving an estimated 100 hours per client
- Built search feature for the Open Practice Library from scratch to increase functionality of tool, expanding access
- Participated in the Open Innovation Lab's DevOps Enablement training: learned Agile and DevOps best practices

The Impact Fellowship

Inaugural Impact Fellow, Winter 2018

- A selective computer science fellowship focused on developing technical social entrepreneurs
- Completed courses on advanced computer science and web development tools
- Met speakers & leaders from NGOs, social startups, think tanks, and philanthropic organizations
- Developed a team project that automates mentorship of at-risk youth

University of Virginia: Head Teaching Assistant

Head Algorithms TA, Spring 2019

- Lead weekly recitations to recap lecture material Organize and facilitate weekly office hours
- Created and administrated course policies for a class of more than 135 students
- Designed homework and exams and create test suites
- Hired and managed staff of TAs

Research & Independent Projects

The Digital Governance Lab

Co-Founder, Spring 2019 - Present

- Co-founded Digital Governance Lab (DGL) at UVA to support civic technology and expand inter-disciplinary collaboration
- Co-wrote grant application to the Public Interest Grant: University Network from New America
- Co-teaching the pilot class, co-running the speaker series, and fundraising to expand the lab

Student Taught Course: Spatial Reasoning

Instructor, Fall 2018

- Created curriculum and course content with fellow instructor and Professor Luther Tychonievich
- Built a website to host all relevant course documentation and policies
- Implemented research based lesson plans to increase student engagement
- Collected data on course to focus on data driven improvements for tangible change

The Hult Prize

Regional Semi-Finalist, Spring 2018

- The Hult Prize is the world's biggest engine for the launch of for-good, for-profit startups emerging from universities with over 2500 staff and volunteers around the world
- Competed in the regional finals as one of 3,000 teams out of 100,000 applicants
- Our idea was varying powerline currents to eliminate energy theft (a 90 billion dollar problem)

Skills

Programming Languages: Python, Java, C++, C, Javascript

Tools: LATEX, Pytorch, Tensorflow, Ansible, Docker, Django, Markdown

Project Management: Git, Github, Gitlab, Agile, Trello, Asana