

# Rohit Musti

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

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## Education

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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

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### Red Hat: AI Center of Excellence

*AI Research Intern, Summer 2019*

- Designed internal dataprocessing pipeline to clean and featurize client interaction data
- 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 block standard approaches scalable solutions

### Amnesty International: Urgent Action Network

*Consulting Developer, Fall 2018 - Present*

- Creating a data analytics dashboard for the Urgent Action Network and new interface for members
- 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 access to the library
- 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 blockchain, and web development tools
- Met speakers and 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

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### The Digital Governance Lab

*Co-Founder, Spring 2019 - Present*

- Co-founded Digital Governance Lab (DGL) at UVA to support civic technology and expand interdisciplinary 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

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

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

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