Aryan Srivastava

646-623-7173 | aryan_srivastava@brown.edu | www.arysriv.com | in aryan096 | aryan096 | curiousary

Brown University Class of 2022.5   *Providence, RI*
B.Sc Computer Science - AI/ML and Systems Track

Professional Experience

Brown University Department of Computer Science   *Providence, RI*
Systems Programmer, Operator, and Consultant   *May 2020 - Present*
- Worked closely with the department technical staff to develop a full-stack web application using latest industry-adopted technologies and frameworks to be added to the department website.
- Created a RESTful **API** Service to monitor usage status across the 500+ Linux machines in the department.
- Worked with the software team to develop a Unix based easily distributable departmental operating system to assist students and faculty with working from home.

Brown University Department of Computer Science   *Providence, RI*
Undergraduate Teaching Assistant - CS0040, CS0111   *Jan 2019 - May 2019, Jan 2020 - May 2020*
- Assisted professors and Head TAs in grading assignments, organization and presentation of lectures and labs, assisting students with assignments and other inquiries, and providing mentorship to new students in the department.

Research Experience

Sloman Lab (Cognitive Science) and Biomedical AI Lab (Computer Science)   *Remote*
Brown University   *January 2021 - Present*
Joint Research Assistantship
- Executed effecient data management of a large natural language corpora (300 million+ words) from news and social media, and extensively used cluster computing.
- Developed state-of-the-art modern transformer based neural networks for classifying clause level linguistic features.
- Performed advanced statistical analyses (Loess regression) to analyze and visualize the results of the neural network classification.

Center for Contemporary South Asia and Department of Economics, Brown University   *Remote*
Undergraduate Research Assistant   *March 2021 - Present*
- Scraped and cleaned data from a variety of online sources related to India's demographics and politics.
- Experimented with different natural language processing neural networks to analyze patterns of hate speech on a highly popular regional social media platform.

Projects

Liszt-Comprehension: Developed a modern transformer based neural network capable of generating classical piano music using Keras and Python's Music21 library. You can listen to some of the music here.

Weenix Operating System: Implemented majority of the Weenix OS Kernel as part of the Operating Systems Course's extra credit lab. I worked on threads, processes, drivers, file systems, memory management, and virtual memory.

Tracking The Trackers: Created a full-stack web application to analyze and visualize the prevalence of trackers in a user's browsing session, and to provide trackers' opt-out links automatically.

Leadership

The Bird House   *Lucknow, India*
Founder   *February 2021 - Present*
- Hired and managed a team of 4 people to refurbish, establish, and operate a cafe and community art space in my hometown.
- Completed ~400 orders within the first 2 months of operation.

Brown RISD Innovation Community   *Providence, RI*
CoFounder   *March 2020 - Present*
- Co-founded BRIC, which is now a community of 150+ students from Brown and RISD, encouraging inter-disciplinary collaboration and innovation.
- Developed a curriculum and led discussions on innovative entrepreneurship and workshops on relevant skills and tools.

Skills

Programming	Python, Javascript, R, HTML, CSS, C, Golang
Tools	Git, Linux, Figma, Adobe Creative Suite (Photoshop, Illustrator, Indesign)
Frameworks	Tensorflow, React.js, Node, Django, MySQL, PostgreSQL
Other Interests	Photography, Digital Art, Cooking