

Aryan Srivastava

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Education

Brown University Class of 2022.5

Providence, RI

B.Sc Computer Science - AI/ML and Systems Track

Experience

Brown University Department of Computer Science

Providence, RI

Systems Programmer, Operator, and Consultant

May 2020 - Present

- Created a web-app using **Django** to be added to **Brown's CS website** to act as a dashboard for labs displaying the usage status of all the computers (500+) in the CS Department. I also wrote a Command Line Interface using **Python's Click library**.
- Created an **API** using **Golang's Fiber** framework to serve information about all the computers in the CS department using the department monitoring system - Ganglia. This involved writing a plugin for the monitoring system to track when a user was physically logged into a computer.
- Helped in the creation of a Debian based departmental Linux work-from-home distribution to be used by students and faculty during COVID-19.

OyeSpace

Bangalore, India

Product and Innovation Intern

June 2019 - August 2019

- I identified **crucial pain points** and **developed plans for new features** for the company's innovative gated community security products and app after successfully conducting market research in multiple gated communities in Bangalore.
- I did **UI/UX design, research, and testing** for three new features that were adopted for development.
- I developed a **business plan** and **strong brand identities** for a new venture alongside the CEO.

Brown University Department of Computer Science

Providence, RI

Undergraduate Teaching Assistant

Spring 2019, Spring 2020

- Teaching Assistant for two of Brown's biggest introductory CS courses (v).
- Helped a course of 200+ students understand fundamental CS concepts such as data structures and object oriented programming, and provided mentorship for projects.
- I created course materials such as assignments, labs, helped with grading, and held weekly office hours.

Projects

Liszt-Comprehension

- Developed a music model in **Tensorflow** to generate classical music using **transformers** and **attention**, using MIDI files for training.
- Wrote two model - **NoteGen** and **DurationGen**, to generate notes, and durations for those notes respectively.
- The model was able to pick up composer style! Listen to some of the generated music [here](#).

Weenix Operating System

- Implemented majority of the **Weenix OS Kernel** as part of the Operating Systems Course's optional extra half credit lab using **C and Assembly**.
- I worked on threads, processes, drivers, file systems, memory management, and virtual memory.

Tracking The Trackers

- Created a web-app using **React.js** to provide helpful information and visualizations about trackers based a user's browsing data.
- Modified the **PPrivacyBadger** extension to provide an easy way for users to collect data about trackers found during their browsing.
- Visualized this collected data using **D3.js** and wrote functionality to allow users to opt-out from being tracked by these trackers.

Clause Level Classification Models

- Developing a model to classify clauses based on their genericity (generic or specific) and their situation entity type using **Tensorflow**, **Huggingface**, and **spaCy** as part of a research project with **Brown AI Lab** and **Sloman Lab**.
- This model will be used to study narratives about certain political topics on social media platforms like Reddit.

Leadership

Brown RISD Innovation Community

Providence, RI

CoFounder

March 2020 - Present

- Co-founded a club at Brown and RISD with over 150 interested members that emphasizes cross-community collaboration through undertaking cohort projects, workshops, and community events.
- Led a team of 10 students and managed the curriculum development team to develop workshops, a guest speaker series, and community discussion events. Helped design systems for operations, and created content around topics of innovation to present to interested student members.

Skills

Programming	Python, C, Golang, Javascript, R, Scala, C++, Java, HTML, CSS
Tools	Git, Linux, Figma, Adobe Creative Suite (Photoshop, Illustrator, InDesign, XD), Unity3D, Tableau
Frameworks	Tensorflow, React.js, Node, Django, MySQL, PostgreSQL
Other Interests	Digital Art and Illustration, Singing, Video games, Baking