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.
- 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.

Research Experience

Sloman Lab and Biomedical AI Lab, Brown University
Remote
Joint Research Assistantship
January 2021 - Present
- Exploring how discourse surrounding marijuana legalization has evolved using machine learning methods.
- Created state-of-the-art neural network models to classify clauses based on linguistic properties - Genericity, Aspect, and Boundedness. Using these models to study 3 million+ documents.

Projects

Liszt-Comprehension: A music model using **Transformers and Attention** capable of generating classical piano music by learning notes and durations using MIDI files for training built using **Keras and Python's Music21 library**. 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 optional extra 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 visualize - using **D3.js** - the presence of trackers during a user's browsing session using data collected from a modified version of the PrivacyBadger extension, and to provide opt-out links automatically.

Leadership

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 by undertaking projects and facilitating discussion on current issues and topics.
- Led a team of 10 students on the e-board, and managed the curriculum development committee.

Skills

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