Shenandoah Duraideivamani

Phone:+ 1 980 298 7773; Email:shenandoah_duraideivamani@brown.edu; Linkedin: https://www.linkedin.com/in/dshenandoah/

EDUCATION

Brown University, *Sc B Computer Science*, 3.9/4.0 GPA   Providence, RI | **Expected Graduation May 2022**
Relevant Courses: Software Engineering, Software Security, Deep Learning, Systems, UIUX, Graphic Design
Activities: Grace Hopper '20, RTC Fellow, Fashion@Brown Graphic Designer, IT coordinator for Brown Hackathon

PROFESSIONAL EXPERIENCE

Internships:

Goldman Sachs, *Incoming Summer Analyst*   *NYC, NY* | June 2021- August 2021
IBM, *Full Stack Engineer*   *Durham, NC* | June 2020 – August 2020
- Responsible for IBM Cloud Event Management (CEM) (v.2.1.1): improved login timeout UX, new filter screen modal for events and incidents, Notification Alerts for iOS and Android and 10+ bug fixes in React Native
- Front end graph for IBM Cloud Usage Statistics by customer's request in web version using React Charts
- **First project (v.2.1.1) in IBM Cloud and Cognitive Services to have zero backlog**

Time Spent, *Senior Software Engineer and Project Manager*   *Remote* | April 2020 - August 2020
- Developed a startup where users can learn by bartering skills instead of money
- In charge of hiring 4 developers, SDE using Flask and Python, leading members with tech and design questions
- Startup of the Month in B-Lab Venture Brown University

Teaching Assistant Experience in Brown University: *Providence, RI* |

Only undergrad in Brown to have ever held all TA program positions
*Meta Teaching Assistant for CS department***:**   January 2021 - April 2022
- Work with Director of Undergrad Studies to coordinate the TA program by overseeing all TA hiring and training, managing TA program resources, and providing logistical and technical support for the program as a whole

*Head Teaching Assistant (Introduction to CS and data science)***:**   August 2021 - December 2021
- Work with professors to coordinate and organize the course and manage UTA staff of 6

Software Engineering Undergrad Teaching Assistant   January 2021 - April 2021
- Explain concepts to students and debug code, develop/review/grade projects

Research Experience: *Providence, RI* |

Brown University, *Virtual Reality Research for Credit*   January 2021 - April 2021
- Comparison analysis and evaluation of avatars using Oculus Quest 2 in 5 collaborative VR education apps
- Research findings well received by Jacob Loewenstein, VP of Spatial, incorporating changes in next Spatial update
- Evaluated 4 mindfulness VR apps and working to add a collaborative extension to each (ongoing)

Brown University, *Head Socially Responsible Computing (SRC) Teaching Assistant*   September 2020 - May 2021
- Researching training materials for ~20 TAs and supervising them, incorporation of ethical content into Brown course projects, recruiting advisors and advocates to improve the content and program as a whole

Brown University, *Research Assistant*   September 2020 - December 2020
- Working under a Brown PhD candidate to train classifiers to classify social discourses like marijuana legalization

RELEVANT PROJECTS   September 2018 – May 2021

UI UX Portfolio
Software Projects using Java
- Android App to find resources and danger areas during BLM Protests **IBM Intern Hackathon**
- Resume Builder in Google Cloud Platform in **PennApps Hackathon** using Flask and Python
- Developed Recommender Project using ID3 algorithm and testing set to show hiring bias
- Generic events scheduler using graph coloring, by web scraping Coursicle, and storing in MongoDB
- GPS based route finder with dynamic dijkstra on OpenStreetMap API with large scale optimization

Personal Software Projects in Harvard using Python

- Book review website where users view ratings through GoodReads API
- A replica of Slack using Flask and Javascript
- Handling a restaurant's online orders (using Django)

Systems/Security projects
- Buffer attack overflow in Assembly x86
- Making your own shell using C
- Multiple CTF assignments using ret2libc chaining, esp lifting, ASLR, ROP, kernel exploitation, code injection

Deep Learning using Tensorflow 2.0
- Recognizing handwritten digit using MNIST dataset
- Machine Translation with Canada's parliament script

TECHNICAL SKILLS

Java, React, Python, **HTML/CSS**, Scala, Racket, ReasonML, Javascript, C, Assembly, MongoDB, TensorFlow