

SHREYA MALHOTRA

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EDUCATION

Virginia Tech, Blacksburg, VA

Master of Engineering, Computer Science and Application | GPA 4.0/4.0

May 2023

NMIMS University, Mumbai, India

Bachelor of Technology, Computer Engineering

May 2021

Skills – Python, SQL, Docker, Helm, Kubernetes, Java, MATLAB, HTML/CSS, ASP.NET, Development/Testing, Machine Learning, Digital Marketing, Audio processing – Digital Signal Processing, Adobe Creative Suite, Social Media Management, Front End Designing, PowerPoint, SAS, REST APIs, Automated Testing tools, Haskell, Photoshop, DevOps.

PROFESSIONAL EXPERIENCE

Application Developer Intern

Norfolk, Virginia

ADP (Automated Data Processing)

June 2022 – August 2022

- Closely collaborating with network delivery services inside an agile framework and constructing a Python application using the Flask API to extract information from the server, such as IP address and VLAN switch details, and store it in CSV and PDF format to set up data centers.
- Continuing the project's deployment on Docker and collaborating closely with Helm and Kubernetes along with firewall configurations.
- Producing UML diagrams that show the project's specific information in depth and documenting the points required for the project report.
- Writing automation scripts in Python that help in removing LACP switches and VLAN.

Hokie Mentorship Connect (HMC) Assistant

Blacksburg, Virginia

Career and Professional Development, Virginia Tech

March 2022 - May 2022

- Provided platform administrative support and working on joint efforts to market the program on behalf of Career and Professional Development along with providing mentorship assistance to peer students.
- Managed the day-to-day in office requests for promotional items, on-campus presentation requests, and monitors the program's email account along with data analysis and generating reports of the usage of the platform.
- Provided co-supervision of 10 Hokie Mentorship Connect Ambassadors and conduct outreach to key faculty, advisors, industry partners, and alumni.
- Created a course program for students for career and professional development that involved courses on LinkedIn learning and creating instructional scripts for monthly newsletter.
- Marketed the program on behalf of Career and Professional Development through event attendance and participation in person engagement also generated posters for social media reach out.

Machine Learning Intern

Mumbai, India

Tech Mahindra

May 2020 – June 2020

- Performed sentiment analysis of 1000 tweets records using Natural Language Processing in Python and built a logical model that segregates them into different categories depending upon keywords identified.
- Further represented them in Neo4j learned in Knowledge Graph Conference 2020 for monitoring and analyzing.

Software Developer Intern

Mumbai, India

Ernst & Young

December 2019 – Jan 2020

- Filtering raw Tax values such as Supplier GSTN, Supplier Name, Taxable value, SGST Rate and CGST Rate of 1000 records from unstructured formatted Excel into structured format using Python Natural Language Processing.
- Further stored the filtered information in a formatted excel for additional analysis.

Software Developer Intern

Mumbai, India

Air India Limited

May 2019 – June 2019

- Build a ticketing system named **Advanced Passenger Information System** (APIS) with a team of 3 in **Python** to help the airline's administration to monitor, track and assess records, become even stronger and more dependable by collecting and storing data from monthly flights via email server.
- Deployed a project "**Passenger Booking History System**" that allows the user to access information of a desired passenger using key features such as PNR or E-Ticket numbers.

Web Developer Intern

Mumbai, India

Rashtriya Chemical Fertilizers

June 2018

- Facilitated and re-engineered project to improve and consolidate end-to-end service processes by developing a web page for marketing tenders to access for contracts using location and date using **ASP.NET, TOAD and HTML CSS increasing 45% efficiency for users.**

FEATURED PROJECTS

Gallery

- Developed a Kotlin application using REST APIs, that will display sample photos from Flickr in both a grid view and a map view. Also allows you to click on a photo and see the photo's Flickr page using a web view. Implemented fragment activities for both grid and map view. Created viewModels to access photo's using Flickr API.
- Demonstrated the use of RecyclerView for photo gallery fragment that makes use of inner classes of Holder and Adapter and implemented bottom navigation menu to toggle between map and gallery view.

Learning Portal

- Developed a website to assist students with Autism in learning basic subjects including math, English, and general knowledge with 10 questions each. This project was made with **Java** and **SQL (CRUD Operations)**.
- Implemented **APIs** like **Text Recognition** to determine the correct spelling when a user types/writes on paper. Also created 3 quiz that was entirely based on a database and used **Prime Faces** for basic **XHTML CSS** design.
- Created a platform for students to learn numbers in a text to speech format with a feature named "Number of the day" that displays the digit representation of the number as well as the word representation of the number.
- Platform used to develop this project were IntelliJ and MySQL.

Breast Cancer Detection

- Demonstrated leadership role by developing a project that takes scanned images of mammograms (approximate pictures 3) and extracts features using various **image processing** operations such as noise removal, masking and segmentation using **MATLAB** to observe and retrieve information to clarify breast cancer detection.
- This project was built to help hospital's efficiency in rural areas (towns with population of 10,000) for women to identify if they have breast cancer in a cost-effective manner.

Alai

- Project leader for team of 3, created a study resource platform(website) for students in rural India that includes around 50 digital books and recorded lectures in situations like pandemic to assist professors with online lectures using **Bootstrap, JS, jQuery, Django**.
- The project's goal was to provide resources to 5000 rural students studying in schools/colleges.

Drisht

- Project Leader for an app build using **Python** for people who are visually challenged. As a replacement for cane, this employs **object detection** to warn the user when an object is approaching closer (approximate distance 1 meter). The user can use voice commands to interpret all the tasks of a regular mobile phone using this app.
- This project also won first runner up prize in Software and Hardware Competition March 2019 winning \$100.

ADDITIONAL EXPERIENCE

Fundraiser

CRY - Child Rights and You

Mumbai, India
May 2019 – June 2019

- Ardent Advocate for child rights who participated in a campaign that helps in saving 1750 children from child labor in India
- Researched potential donors to gain insight into needs, beliefs, and donation habits to understand how to position the organization to them
- Assisted in brainstorming and creating new methods to raise funds for the organization
- Maintained complete and orderly records of donors and manage regular donor communications
- Developed good communication skills and public speaking for the cause as a social awareness among different societies

Teacher

Krishna's Edu World

Mumbai, India
October 2018-March 2019

- Conducted classes for students for high school students aimed at Mathematics with class size of 30 along with private tutoring to students for solving questions.
- Provided personal assistance to students with disabilities by establishing a comfortable environment for teaching.
- Graded papers and assignments and aided guidance for everyone to improve their performance.
- Brain stormed course development and analysis for classes for better understanding for students along with generating test quizzes.