

Sharad Swaminathan

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EDUCATION

University of North Carolina at Charlotte

Master of Science in Computer Science

Aug. 2021 – Present

Charlotte, NC

University of Mumbai

Bachelor of Engineering in Information Technology

July 2015 – May 2019

Mumbai, India

EXPERIENCE

GoPeaks Lab (UNC Charlotte)

Research Intern

Oct. 2021 – Present

Charlotte, NC

- Developed a web application using Dash that visualizes a knowledge graph to provide actionable insights on organizational performance for enterprise management.
- Implemented a directed graph visualization to map organizational factors to their outcomes.
- Implemented features for uploading and filtering data as well as downloading the resulting graph.

ACG World

Software Developer Intern

Dec. 2020 – Mar. 2021

Mumbai, India

- Worked on a web application that monitors and tracks pharmaceutical machines for quality control and generating insights.
- Created reports in PowerBI to visualize machine data and embedded it in the web application.
- Developed a UI using React for sharing PowerBI reports among users of the web application.
- Integrated UI elements with the REST API on the backend.
- Enhanced the functionalities of the embedded PowerBI reports by adding a feature to reset hierarchical filters.

PROJECTS

det0x - Toxic Comments Classifier | *Python, Flask, Keras, Twitter API*

- Developed a web application using Flask to gain insight on the percentage of toxic tweets by Twitter users in order to determine their online behaviour based on their tweet history.
- Implemented a machine learning model using Keras trained on a database consisting of 150,000+ user comments to classify toxicity of given text input.
- Created word embedding vectors using GloVe embeddings for vectorizing text input.
- Integrated the Twitter API into the web application to fetch tweets of a user.

Portfolio | *JavaScript, React, SCSS*

- Designed a portfolio website for myself using React and SCSS.

eLeave | *Java, Android, SQLite*

- Developed a mobile application on Android that functions as a leave management system for business organizations.
- Integrated a SQLite database with the UI of the application.

Lyricify | *Python, BeautifulSoup, GTK*

- Developed a command-line and GUI desktop application that displays lyrics for Spotify songs.
- Implemented a Python script that fetches lyrics by web scraping.
- Used GTK to create a UI that can be optionally used by the users.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, HTML/CSS

Frameworks/Libraries: React, Express, Node.js, Flask, Redux, GraphQL, Dash

Databases: MongoDB, SQL

Tools: Git, Linux Shell, Heroku, PowerBI

ACHIEVEMENTS

- Active contributor to **lichess.org**, an open source chess server, since March 2021.
- Completed a certificate course on **fullstackopen.com**, covering modern full stack development using technologies such as React, Express, Redux, and GraphQL.