

Melvin Alex Mathew Andoor

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Education

M.S. Computer Science, University of Massachusetts Dartmouth

May 2021

B.E. Computer Engineering, University of Mumbai

June 2019

Technical Skills

Languages: Python, Java, SQL, C, HTML, CSS, JavaScript, C#

Frameworks: Bootstrap, ReactJs, D3Js, NodeJs, Django, Flask

Databases: MySQL, MongoDB, SQLite

Libraries: scikit-learn, Pandas, Seaborn, NumPy, Matplotlib, Folium, SciPy

Other: Git, GitHub, Heroku, Unity, Android, Docker, Kubernetes, Jenkins, Tableau, REST, Linux, Agile, Visual Studio Code, Jupyter Notebook, Eclipse

Projects

Job Portal | Python + HTML + CSS + JavaScript + Django + SQLite | [CODE](#)

- Developed a job portal web app using the [Django Framework and SQLite Database](#).
- Used the [Indeed API](#) to post the job positions in this web app.
- Wrote and deployed user authorization API's using the [Django REST Framework](#).
- Integrated the [XSS input sanitization](#) using [DOMPurify](#) to prevent against cross-site scripting attacks and used [Git for version control](#).

Music Web App | Python + HTML + CSS + ReactJs + Django | [CODE](#)

- Designed web application to play music by joining in a room. The web app developed using [Django and ReactJs frameworks](#).
- Incorporated the [3rd party API from Spotify](#) in the application to access the music list and to play and pause the songs.
- Employed [Kubernetes for containerization](#) and [Jenkins for continuous integration and deployment](#). For version control GitHub was used.

CIS 568: Data Visualization | Python + Excel + HTML + CSS + D3Js + Git | [PROJECT](#) [CODE](#)

IMDB Movie Ratings and Effect of Covid 19 on Export Import Trade between Countries

- [Analyzed](#) the IMDB Movie Ratings dataset from 1916 to 2016 to determine the [Correlations and Dependencies](#) present.
- Found that the correlation between a Movie being the highest grossing and the number of users and critics that voted for the movie was [0.83 strong correlation](#). With the help of D3js these findings were visually presented.
- [Collaborated with 3 other colleagues](#) to find the affects of [Covid 19](#) on Trading between nations and identified that at the initial few period of the pandemic, [trade deficit](#) of all nations was down by almost [700 billion dollars](#).
- Designed a World Network Graph to present the trade relations between nations as a team member.

CIS 552: Database Design | Java + SQL + Git + Netbeans | [CODE](#)

- Worked with 4 peers to develop a [SQL Query Evaluator system](#) using the [Jsqlparser library](#).
- [Developed](#) the Union and Aggregation operations [as a member of the team](#) using the [Hash Table Data Structure](#).
- Tested the system by giving as input simple to very complex [SQL queries](#) and found the [accuracy to be 94.7%](#).

Experience

Frontend Developer Intern | [Don Bosco Institute of Technology](#)

July - Oct 2017

- Developed a [visually appealing Front End](#) of the Don Bosco Journal of Science and Engineering along with a [team of UI/UX designers](#).
- Designed the Home, About and Admin pages using HTML, CSS, Bootstrap and JavaScript.
- [Assessed the UI designs](#) for technical feasibility.

Achievements

KPMG Data Analytics Consulting Virtual Internship | [Forage](#) | [PROJECT](#) [CODE](#)

August 2020

- Evaluated the quality of the given datasets using Microsoft Excel and then [performed data cleaning and processing](#) using Python.
- Grabbed insights from the data and found the High Value Customers of the client using [RFM Analysis](#).
- Used Tableau to [visually present](#) the insights found.