

# Melvin Alex Mathew Andoor

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## Education

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| <ul style="list-style-type: none"><li><b>University of Massachusetts Dartmouth:</b><br/>Master of Science in Computer Science   <b>GPA: 3.6</b></li><li><b>University of Mumbai</b><br/>Bachelor of Engineering in Computer Engineering   <b>GPA: 3.2</b></li></ul> | <b>Dartmouth, Massachusetts</b><br>Expected July 2021<br><b>Mumbai, India</b><br>Class of 2019 |
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## Work Experience

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| <ul style="list-style-type: none"><li><b>Don Bosco Institute of Technology</b><br/><b>Frontend Developer Intern</b><ul style="list-style-type: none"><li>Developed and implemented along with a team of UI/UX designers a visually appealing Front End of the Don Bosco Journal of Science and Engineering using Bootstrap, HTML, CSS, and JavaScript.</li><li>Assessed UI and UX designs for technical feasibility.</li></ul></li></ul> | <b>Mumbai, India</b><br>July 2017 - October 2017 |
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## Academic Experience

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| <ul style="list-style-type: none"><li><b>Portfolio website using React.js</b><ul style="list-style-type: none"><li>Designed and built a portfolio website using React.js.</li><li>Integrated the XSS input sanitization using DOMPurify to prevent against cross-site scripting attacks.</li></ul></li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>February 2021</b>                           |
| <ul style="list-style-type: none"><li><b>CIS 568: Data Visualization</b><br/><b>IMBD Movie Ratings (1916-2016)   Export Import Trade Between Nations worldwide</b><ul style="list-style-type: none"><li>Deployed 2 Interactive Full Stack Data Visualization projects.</li><li>Analyzed the IMDB Movie ratings dataset from 1916 to 2016 for correlations and dependencies.</li><li>Created visualizations of the results found from the analysis using d3js library, HTML, CSS, JavaScript.</li><li>Collaborated with 3 colleagues to design the visualizations that explained how COVID-19 has affected the Export Import trade between nations.</li></ul></li><li><b>Weather Application using React.js</b><ul style="list-style-type: none"><li>Deployed a Full stack Weather Application System using the React library from JavaScript.</li><li>Used the openweathermap API to find the weather of the Entered City of a Country.</li><li>Customized the frontend of the system using Bootstrap, HTML, CSS.</li></ul></li></ul>                                                                                                                                                                                                                                                                                           | <b>December 2020</b><br><br><b>June 2020</b>   |
| <ul style="list-style-type: none"><li><b>CIS 552: Database Design</b><br/><b>SQL Query Evaluator Software</b><ul style="list-style-type: none"><li>Collaborated with 4 peers to develop a SQL query Evaluator using the Jsqlparser library.</li><li>Developed SQL operations like Selection, Projection, Joining, Union, Aggregation, Selection, and Projection Pushdown and Cross Join with Java and GitHub were used for maintaining the versions of the project amongst the team using Java programming language.</li><li>Adopted the Hash Table data structure methodology to implement the SQL operations.</li><li>Validated the performance of the project with SQL queries with varying complexity.</li></ul></li><li><b>CPC 602: Software Engineering</b><br/><b>Plagiarism Detection System</b><ul style="list-style-type: none"><li>Worked with 2 other peers to develop the Plagiarism detection system using PHP and JavaScript.</li><li>Designed the system with a student's and Teacher's portal.</li><li>Programmed a plagiarism detection algorithm using TfidfVectorizer and cosine_similarity modules from the sklearn library of Python.</li><li>Used the scrum methodology during the implementation period that lasted 2 months, with the course professor acting as the scrum master.</li></ul></li></ul> | <b>April 2020</b><br><br><br><b>March 2018</b> |
| <ul style="list-style-type: none"><li><b>CPC 503: SOOAD</b><br/><b>Bug Tracking System</b><ul style="list-style-type: none"><li>Implemented a Bug tracking system using Java to store, collect and maintain records of the bugs reported.</li><li>Structured the system such that the users can see their bugs reported and they can submit new records to the system.</li></ul></li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>November 2017</b>                           |

## Achievements

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| <ul style="list-style-type: none"><li><b>KPMG Data Analytics Consulting Virtual Internship (Forage)</b><ul style="list-style-type: none"><li>Assessed the quality of the datasets given using Microsoft Excel.</li><li>Grabbed Insights from the dataset and found the High Value Customers of the Client from the Client Dataset given using RFM Analysis using Python.</li><li>Presented the visual insights found from the dataset using Tableau.</li><li>Completed the assigned modules: Data Quality Assessment, Data Insights and Presentation</li></ul></li></ul> | <b>August 2020</b> |
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## Skills & Certifications

- Programming Languages:** (Proficient): Python, Java, C, C++ . (Familiar): R(Ruby), PHP
- Programming Libraries:** (Proficient): Pandas, NumPy, SciPy, Matplotlib, Seaborn, sklearn, Folium, d3js.  
(Familiar): React.js, Node.js
- Web Design:** HTML, CSS, JavaScript, Bootstrap
- Frameworks:** MySQL, MATLAB, Android, VR, Agile Methodology, Scrum
- Version Controls:** Git and GitHub, Gitlab
- Development Tools:** Unity, Eclipse, NetBeans, Visual Studio, Sublime Text, PyCharm
- Certifications:** Python Essential Training- LinkedIn Training, Gesture Robotics IIT Bombay, HTML, CSS- Cambridge Certification Authority, Android Application Development Certificate from Monkfox, Ethical Hacking & Mobile Hacking Certificate from CyberX Securities