

# RAJ MEHTA

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## EDUCATION

<b>Master of Science in Information Systems</b> , Northeastern University	<i>Expected Apr 2024</i>
<i>Coursework: End-to-end Application Development, Big Data Intelligence, Machine Learning, Advanced Data Science</i>	
<b>Bachelor of Science in Information Technology</b> , St. Xavier's College	<i>Jun 2018 - Mar 2022</i>
<b>Computer Science</b> , University of Notre Dame	<i>Feb 2021 - Dec 2021</i>

## TECHNICAL SKILLS

<b>Programming Languages</b>	Java, Python, SQL, Bash, R, Dart, JavaScript, HTML-CSS, C++
<b>Software/Tools</b>	AWS (S3 and EC2), GCP, Apache Airflow, Tableau, Power BI, Streamlit, Docker
<b>Database</b>	SQL Server, Oracle, MySQL, MongoDB, Snowflake
<b>Competencies</b>	AI, ML, Computer Vision, Deep Learning, Software Development, Cloud Programming, CI-CD

## PROFESSIONAL EXPERIENCE

<b>Quality Assurance and Automation Engineer</b> , <a href="#">DE Shaw &amp; Co</a> , Hyderabad, India	<i>Jan 2022 - Sep 2022</i>
<ul style="list-style-type: none"><li>Translated new website and API enhancements into test scenarios and identified areas of regression in collaboration with the project stakeholders, increasing overall readiness by 10%</li><li>Proposed and implemented an automatic bug monitoring system to perceive potential problems in advance within the development cycle ending in 20% fewer defects stated through past due-level QA reviews</li><li>Managed defect logging and categorization, as well as writing and execution of automation scripts used for monitoring jobs, resulting in a 5% increase in defect pinpointing</li></ul>	

<b>AI/ML Engineer</b> , <a href="#">Dronology</a> - Funded by NASA & NSF, South Bend, IN	<i>May 2021 - Dec 2021</i>
<ul style="list-style-type: none"><li>Assured the dependability of communication with drones and devices which were designed to subscribe and publish responses using the MQTT architecture, drastically improving response time from 10ms to 2ms</li><li>Performed safety testing by flooding the network with mutated flight plans for the UAVs to ensure the proper functioning of the safety algorithm, ensuing 1500 test case checks per second</li><li>Published <a href="#">papers</a> to the International Journal on Software Engineering, October 2022 (JSS) and the International Conference on Communications, December 2021 (ICCPS)</li></ul>	

<b>Software Developer</b> , <a href="#">Jhoola</a> , Mumbai, India	<i>Aug 2020 - Dec 2020</i>
<ul style="list-style-type: none"><li>Developed a Flutter application that creates and manages the schedules and tracks performance for the end users, cutting down paperwork by 30%</li><li>Invented a Java algorithm that builds and updates resume with the help of multiple API calls, making the average wait time from 10ms to 4ms</li><li>Performed as scrum manager for the team consisting of 7 software developers and hosted meetings on a daily basis.</li></ul>	

## PROJECTS

<b>Basic Dutch Auction (Smart Contract - Crypto)</b>	<i>May 2023</i>
<ul style="list-style-type: none"><li>Created a decentralized application for a Dutch Auction using Solidity smart contracts.</li><li>The project has multiple milestones, milestones. Each milestone builds upon the work of previous milestones.</li><li>Final outcome is an end-to-end application, including UI build, testing eth from a faucet, and using IPFS to enable others to access it through an ipfs:// URL. View project: <a href="#">GitHub</a></li></ul>	

<b>Meeting Intelligence (Cloud Application, APIs, web app, ci-cd, airflow, OpenAI, GPT)</b>	<i>May 2023</i>
<ul style="list-style-type: none"><li>The application converts audio files into a text transcript using the Whisper API.</li><li>The transcript is then used with ChatGPT 3.5 APIs to ask standard questions about the text.</li><li>Additional functionality was included for users to ask custom questions about the text. View project: <a href="#">GitHub</a></li></ul>	

<b>Stock Predictor (REST API &amp; Machine Learning)</b>	<i>Mar 2022</i>
<ul style="list-style-type: none"><li>Advanced user-friendly application that allows users to create a portfolio and analyze their stock position.</li><li>The Stock Prediction module is also a great addition that predicts the future price for a particular stock, with an accuracy of 63.3%.</li></ul>	

<b>Financex (end-to-end Java Application)</b>	<i>Nov 2022</i>
<ul style="list-style-type: none"><li>A Java-based project with ANT application as the front end and MySQL as the database.</li><li>The application fetches real-time data from NYC, NSE, and BSE stock market APIs.</li><li>It includes a login and portfolio section and broker and brokerage facilities. View project: <a href="#">GitHub</a></li></ul>	

## PUBLICATION

<b>Configuring mission-specific behavior in a product line of collaborating Small Unmanned Aerial Systems</b> , <i>Journal of Systems and Software</i> <b>2022</b> , Md Nafee Al Islam, Muhammed Tawfiq Chowdhury, Ankit Agrawal, <b>Raj Mehta</b> , Daria Kudriavtseva, Jane Cleland-Huang -ISSN 0164-1212, <a href="https://doi.org/10.1016/j.jss.2022.111543">doi.org/10.1016/j.jss.2022.111543</a>	<i>Oct 2022</i>
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