

# RISHIKA BHANUSHALI

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## EDUCATION

<b>Rutgers University- New Brunswick</b>   Master of Science: Computer Science <b>Relevant Coursework:</b> Data Structures, Artificial Intelligence, Databases, Brain Inspired Computing, Computer Vision, Mathematical Foundation of Data Science	<b>Sep 2021- May 2023</b> <b>CGPA:</b> 3.83/4
<b>University of Mumbai</b>   Bachelor of Engineering: Computer Engineering <b>Relevant Coursework:</b> Operating Systems, Software Engineering, Data Mining, Algorithms etc	<b>Jul 2016- Jul 2020</b> <b>Aggregate:</b> 8.59/10

## TECHNICAL SKILLS

- **Operating System:** Windows 10, Linux 4.4
- **Languages :** Java, C++, Python, Javascript, HTML-CSS, TypeScript, ReactJS
- **Databases:** SQL Management Studio, phpMyAdmin
- **Application Software & Tools:** MS Office, Android Studio 10, Git, Jira, Eclipse, Slack
- **BI & Cloud:** Machine Learning, Data Visualization, PowerBI, Amazon AWS
- **Framework:** Spring Boot, React Native, Angular 10
- **Scripts:** PowerShell, Batch

## WORK EXPERIENCE

<b>Rutgers University, New Brunswick</b> -Teaching Assistant <b>Roles &amp; Responsibilities:</b> <ul style="list-style-type: none"><li>• Tutored 60+ students, taught them SQL, RDBMS, Database Design, Normalization</li><li>• Developed course curriculum, graded assignments, conducted office hours to resolve queries and have group discussions.</li></ul>	<b>Jan 2022-current</b>
<b>BNP Paribas India Solutions, Mumbai</b> – Associate Software Engineer <b>Project: Banking Reconciliation ADM</b>   <b>Technical Stack :</b> SQL Server 14, PowerShell Scripts, Batch Scripts, Intellimatch <b>Roles &amp; Responsibilities:</b> <ul style="list-style-type: none"><li>• Wrote quality scripts in PowerShell and batch to foster automation that decommissioned <b>260 existing scripts</b>.</li><li>• Liaised with the users to understand the requirements and developed technical solutions to add/fabricate features.</li><li>• Designed complex SQL <b>stored procedures</b> and employed to visualize data with <b>Crystal Reports</b>.</li><li>• Coordinated in migration of 6 legacy databases to cloud environment.</li></ul>	<b>Jul 2020-Jul 2021</b>

## PROJECTS & RESEARCH PUBLICATIONS

<b>Sketch to Face (Pytorch, Deep Learning)</b> <ul style="list-style-type: none"><li>• Modelled a CGAN with U-Net architecture to generate realistic photos with artistic sketches and ground truth as inputs.</li></ul> <b>Smart Reader (Python, Raspberry Pi 3, PyCharm) Issue:</b> Volume 7 Issue 8, Aug 2020	<b>Jan 2022-Apr 2022</b> <b>Jun 2019-Mar 2020</b>
<b>Journal Name:</b> International Research Journal of Engineering and Technology (IRJET) <ul style="list-style-type: none"><li>• Constructed Smart Reader by processing the input image using Local Mean-Gradient thresholding and modelling the character recognition using tesseract. The system converted the image to text and then speech which aided visually challenged people to hear out text. Tested the model for 78 languages.</li><li>• Secured 1st place in Computer Engineering Department at Project Expo [Jul 2019-Jul 2020].</li></ul>	
<b>PathFinder (Java 13)</b> <ul style="list-style-type: none"><li>• Implemented global search strategies such as Breadth First Search (BFS), Uniform Cost Search (UCS) and informed search strategies such as A* heuristic search to find optimal path from Source to destination overcoming the blockages.</li><li>• Compared 4 directional A* agent and blindfolded agent and graphed an overlapping chart between the two to analyze it.</li></ul>	<b>Sep 2021-Oct 2021</b>
<b>ICINBanking Application (Spring Boot, Java, JSP, Hibernate, Angular 10)</b> <ul style="list-style-type: none"><li>• Created a banking application with multifactor authentication to handle transactions between multiple dynamic user accounts, print out the account statements and deposit the checks using scanned image.</li><li>• Employed spring boot to send the backend data to the Angular frontend, JSP to handle the API calls.</li></ul>	<b>Aug 2020-Sep 2020</b>
<b>HearMeOut (React Native, Redux)</b> <ul style="list-style-type: none"><li>• Developed a React native application which enabled the registered user access 1780 books which banked functionalities like book search, bookmarking and audio plugin of the books.</li><li>• Rendered react HashRouter for Search optimization of audio books which improved the search results by 43%</li></ul>	<b>Dec 2018-Apr 2019</b>

## EXTRA CURRICULAR ACTIVITIES

- Led a workshop for 50+ students and taught Python 3.x, data cleaning, data visualization.
- Volunteered at Thane Municipal Corporation's Bal Snehalaya (orphanage) from May 2019 to Jun 2019.