Monisha **Ranjan**

Student

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"Be the change that you want to see in the world."

Education

Lambton College   *Toronto, Canada*

POST GRAD. CERTIFICATE IN FULL STACK SOFTWARE DEVELOPMENT - **3.608 GPA**   *Sept. 2023 - Apr. 2025*

- Placed on Dean's Honour List in all semesters which is given to promising student

Indian Institute Of Information Technology   *Guwahati, India*

B.TECH IN COMPUTER SCIENCE - **7.75 CGPA**   *Jul. 2017 - May 2021*

Skills

Programming Languages	Java, C++, Python, JavaScript, Matlab, LaTeX, PHP, .NET
DevOps	AWS, Jenkins
Back-end Development	Django, PHP, Laravel, MySQL, MongoDB, ElasticSearch, Spring boot, Fast Api
Front-end Development	HTML/CSS, JavaScript, Bootstrap, React
Tools & Frameworks	Google APIs, Android, Git

Experience

Tekion Corp.   *Bengaluru, India*

SOFTWARE ENGINEER   *Oct. 2022 - Jul. 2023*

- Spearheaded the development of core product features, managing the process from initial design to final delivery.
- Streamlined product requirements into engineering tasks, facilitating project scoping and task delegation.

Tekion Corp.   *Bengaluru, India*

ASSOCIATE SOFTWARE ENGINEER   *Jul. 2021 - Sept. 2022*

- Collaborated closely with the Core Accounting Team for the dealership management system, developing numerous Backend features currently utilized by live dealers.
- Developed and sustained advanced accounting report, enabling near real-time data analysis while ensuring scalability and consistency in reporting mechanisms.
- Played a pivotal role in the Central Accounting Team by implementing features using Kafka for asynchronous event handling with a focus on data reliability.
- Successfully optimized complex database queries, achieving a 30% reduction in query execution time, thereby significantly lowering data retrieval overheads for large datasets.

Tekion Corp.   *Bengaluru, India*

SOFTWARE ENGINEER INTERN   *Jan. 2021 - Jun. 2021*

- As a part of Backend team, developed an employee management system enhancing leave application processes and providing role-specific management features.

Smart Doctors   *Remote*

SOFTWARE DEVELOPMENT INTERN   *May. 2020 - Jul. 2020*

- Developed a video conferencing feature utilizing the Twilio API.
- Transitioned the website from PHP to the Laravel MVC framework, enhancing functionality and user experience.

CertCube   *New Delhi, India*

WEB DEVELOPMENT INTERN   *Jun. 2019 - Jul. 2019*

- Designed and developed an interactive training portal, improving learning and engagement.
- Led the design and development of the company's official website, enhancing online presence and accessibility.

Extracurricular Activity

Lambton College   *Toronto, Canada*

PRESIDENT, GDSC CLUB   *May 2023 - Present*

- Organized and led events to promote technical skills and community engagement among students.
- Plans to facilitate workshops and seminars on cutting-edge technologies and industry trends, fostering a culture of continuous learning.
- Plans to collaborate with industry professionals and alumni to provide networking opportunities and mentorship for club members.

Indian Institute of Information Technology   *Guwahati, India*

PROGRAMMING CLUB COORDINATOR   *Sep. 2019 - Mar. 2020*

- Conducted technical sessions and coding contests, enhancing programming skills among club members.
- Guided students in software development and professional networking, emphasizing the importance of industry connections for career advancement.

Indian Institute of Information Technology   *Guwahati, India*

HEAD GRAPHIC DESIGNER   *Jan. 2018 - Apr. 2019*

- Managed and executed graphic design for the college newspaper, ensuring visual appeal and consistency in content layout.

Honors & Awards

DOMESTIC AWARDS

2021	**20th Place**, She codes Indeed - All India Rank	*Online*
2020	**2nd Place Among 150 teams**, Techno Flux Hackathon	*Guwahati, India*
2020	**Global Rank 1225**, Google Kick Start, Round F	*Online*
2020	**Global Rank 1993**, Google Kick Start, Round C	*Online*
2020	**Qualification Round**, Google Code Jam	*Online*
2018	**Bronze Medal**, HackerRank World Code Sprint	*Online*
2018	**Pre-Elimination**, CodeChef SnackDown	*Online*
2018,19	**Qualified Round 1** , Facebook Hackercup	*Online*
2013	**National Finalist**, Iken Scientifica	*New Delhi, India*

Projects

RAG Chatbot Application   *Online*

GITHUB REPOSITORY   *June 2023 - Present*

- Built a chatbot using the FARM stack and RAG model for enhanced responses.
- Integrated MongoDB Atlas for document storage and retrieval.
- Implemented FastAPI for the backend API.
- Developed a responsive UI with React.
- Configured RAG for accurate, context-aware responses.
- Deployed on a cloud platform for scalability.

Moodify - Music Recommendation System   *Remote*

GITHUB REPOSITORY   *Date Started - Date Ended*

- Developed a dynamic music recommendation system, leveraging Spotify API and OpenAI's ChatGPT to suggest music based on user mood.
- Implemented user authentication, mood analysis from textual input, and secure password management using advanced cryptographic methods.
- Technologies used: Python, MongoDB, Spotify API, OpenAI ChatGPT, and FastApi for backend development.

Integrated Dealership Database Upgrade   *Bengaluru, India*

TEKION CORP.   *Mar. 2023 - Apr. 2023*

- Orchestrated the integration of multiple dealership databases into a single, efficient system, catering to both MySQL and MongoDB.
- I created and managed an asynchronous update framework for effective data synchronization across database types.
- Devised and implemented specialized APIs for data migration, ensuring seamless transition and system integrity.
- Developed a robust error-handling mechanism for complex operational flows, with features for automatic data rollback and event reversion.
- Achieved streamlined data processing, enhanced scalability, and reduced database management complexities.

Centralized Dealership Payment System   *Bengaluru, India*

TEKION CORP.   *Sept. 2021 - Jan. 2022*

- Spearheaded the development of a centralized payment system for efficient management across parent and subsidiary dealerships.
- Implemented Kafka for asynchronous payment processing, enhancing transaction efficiency.
- Developed a tracking system for payment requests and integrated fail-safe mechanisms for event reliability.
- Designed validation logic for user access rights, extending functionalities to vendors, customers, and OEMs.
- Achieved significant reduction in manual payment processing and improved operational efficiency.

PBFT Consensus Algorithm Simulation

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- Simulated the PBFT Consensus Algorithm over a road network with RSUs (Road Side Units) and OBUs (OnBoard Units).
- Ensured the algorithm is $n/3$ fault-tolerant.
- Implemented query handling in the form of [source, destination].
- Executed multiple phases: leader selection, prepare message, validation, and final commit.
- Achieved consensus and provided the most occurred correct message as output.

Coding Profiles

mr_233   **LeetCode - 1609,** Max. Rating

mr_2131   **Codechef - 1833,** Max. Rating

mr_2131   **CodeForces - 1495,** Max. Rating

monisha   **HackerEarth - 1514,** Max. Rating

mr_233   **HackerRank - 1729,** Max. Rating