

Rik Ganguli Biswas

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EDUCATION

ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO, IL

Expected May 2024

Master of Science in Computer Science(GPA 3.66)

Relevant Courses: Advanced Database Organization, Design and Analysis of Algorithms, Computer Networks, Mobile Application Development, Big Data Technologies, Enterprise Web Applications, Software Project Management

INSTITUTE OF ENGINEERING AND MANAGEMENT, KOLKATA

2018 - 2022

Bachelor of Technology in Electronics and Communication Engineering(CGPA 8.65)

Relevant Courses: Data Structures, Algorithms, Object Oriented Programming, Computer Architecture, Internet of Things

EXPERIENCE

Software Engineering Intern

June 2021 - August 2021

Anmol Feeds Private Limited

Kolkata, India

- Used Java and C programming to work on the company's logistics software.
 - Utilized SQL and phpMyadmin to modify the database.
 - Created a Control Tower for the company's webpage using React.
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Notable PROJECTS

GitHub URL - <https://github.com/RikGanguli/Projects>

SmartHome Marketplace: Web Application for Smart Home Appliances (React, Node.JS, JavaScript, MySQL, MongoDB)

- Developed a web application where customers can log in and purchase smart home appliances.
- Products and customer data can be added, updated, and deleted by the store and sales managers respectively.
- Used React to develop the front-end, and Node.JS along with MySQL to develop the backend to store user data, purchase history, and product information. Used MongoDB to store user reviews.
- Features - Search autocomplete, inventory and sales report charts, read and write reviews, display trending items.

Online Retail Simulation and Analytics (Big Data, MySQL, AWS S3, Matplotlib/Plotly, Python)

- Crafted a lifelike simulation of an e-commerce platform's online shopping experience.
- The simulation mimics user interactions, efficiently stores data in both structured and unstructured formats, and analyzes behaviors for valuable insights. Real-time processing, user segmentation, product analysis, and optional machine learning predictions have been implemented.
- Technologies used - Apache Spark, Apache PySpark Streaming, Kafka, Hive, Hadoop, Zookeeper.

Online Library Management System (Servlet, JAVA, PostgreSQL, Maven)

- Functionalities - Users can search for, borrow, and return documents. Librarians can add, delete, and modify documents as well as the number of copies. Documents include books, journal articles, magazines, research papers, theses, and technical reports. Searches are saved enabling users to execute them later.
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SKILLS

LANGUAGES: Java, Python, C, R, JavaScript, SQL, HTML

TECHNOLOGIES: Node.js, Android Studio, MySQL, MongoDB, R Studio, React

SOFT SKILLS: Teamwork, interpersonal skills, leadership, problem-solving

COURSES AND CERTIFICATIONS: [Certifications](#)

PUBLICATIONS

- R.G. Biswas, M. Gangopadhyay, S. Banerjee, " Design of Grey Wolf Optimizer based Amended Equalizer for Universal Mobile Telecommunications System," IEEE IEMENTech 2021, IEEE Xplore - <https://ieeexplore.ieee.org/document/9614795>.
 - R.G.Biswas et al., "Time Dilation," Electrosides, IEM Innovacion 2019.
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LEADERSHIP

- 1 of 12 organizing committee members of IEMPACT 2022, Institute of Engineering and Management's annual cultural fest.
- Organized a SpeedCubing competition in Kolkata.
- Organized IEM-UEM Kolkata Marathon 2022 in a team of 15.
- Volunteered at the 62nd International Conference and HR Congress on Impact of Emerging Technologies on Employment' in 2019.